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OCTOBER 21, 1911.

(Subscription, 10s. per annum, including Diary.  
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Winter and Summer Issues, 1s. each. Post Free.)

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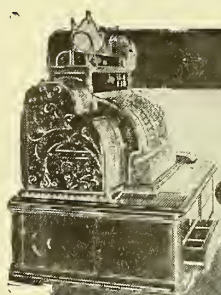
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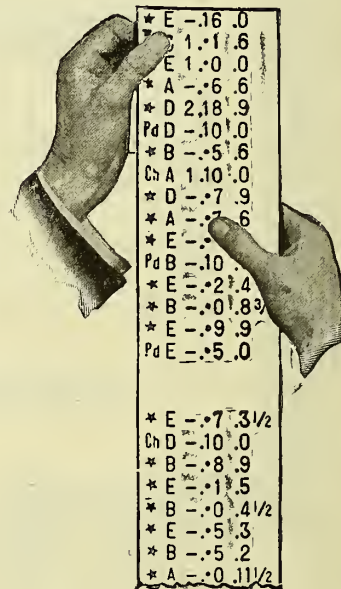
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Oct. 21.

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No. 1

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Page.

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To depart from the traditional style of press publicity offers sufficient excuse to preface No. 1 of

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advertising born of confidence in our productions, and based on the reputation of the House. "Maw's Page" has been introduced only after careful deliberation, and we trust it will become a potential factor in main-

taining the happy relationship which exists with our friends in the Trade. The policy A POLICY, AND of "Maw's Page" will be to A REASON. keep our specialities before Phar-

macists in an interesting manner, eliminating the needless self-appreciative tone which so often marks—and mars—the ordinary advertising of ordinary goods. We ask for criticism of "Maw's

Page." We ask all Pharm THE PHARMACIST macists closely to follow AND "MAW'S PAGE." the articles in succeeding issues, and to turn to it

every week for profit and advice, and for all that is new and good in wholesale salesmanship. *Tempora mutantur, nos et mutamur in illis.*

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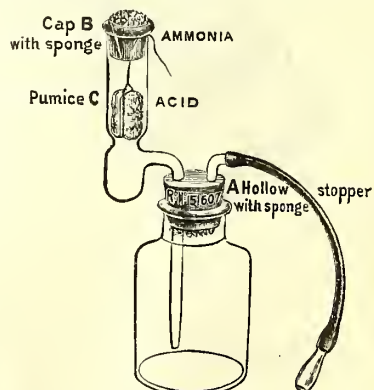


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## THE BUYERS' GUIDE.

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### ACETIC ACID

Crown Chemical Works, Ltd.

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Allison, J. R. B.  
Arden Press  
Degen, F. A.  
Ford, Shapland & Co.  
Suttley & Silverlock, Ltd.

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Camwal, Ltd.  
Idris & Co., Ltd.  
Jewsbury & Brown  
Reynolds & Branson, Ltd.

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Barnett & Foster  
Fingel & Co.

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Fingel & Co.  
Hay, William, Ltd.  
Stevenson & Howell, Ltd.

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Indo-Burma Co., Ltd.  
Lennon, Ltd.  
Peake, Allen & Co.  
Sankyo & Co.

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Burge, Warren & Ridgley, Ltd.  
Burgical Hosiery Co., Ltd.

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Boehringer, O. H., Sohn  
Burgoyne, Burbidges & Co.  
Hoffman-La Roche & Co.  
Howards & Sons, Ltd.  
Macfarlan, J. F., & Co.  
Merck, E.  
Morson, T. & Son.  
Salle, H., and Co.  
Smith, T. & H., Ltd.  
Zimmermann, C., & Co.

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Sorubb & Co., Ltd.  
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Duncan, Flockhart & Co.  
Macfarlan, J. F., & Co.  
Riedel, J. D. Co.  
Smith, T. & H., Ltd.  
Zimmermann, C., & Co.

### ANILINE DYES

Crawshaw, E., & Co.

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Tomlinson & Hayward, Ltd.

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May & Baker, Ltd.  
White, A., & Sons

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Wander, A., Ltd.

### ANTI-RHEUMATIC RINGS

Burge, Warren & Ridgley, Ltd.

### ANTISEPTICS

Lambert Pharmacal Co.  
Macfarlan, J. F., & Co.  
Sanitas Co., Ltd.  
Zimmermann, C., & Co.

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Haywood, J. H., Ltd.  
Maw, S., Son & Sons

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Zematone Co.

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Evans Sons Lescher & Webb Ltd.  
Martindale, W.  
Parke, Davis & Co.

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Woolley, Jas., Sons & Co., Ltd.

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Maw, S., Son & Sons  
Wood, Vincent

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Maw, S., Son & Sons  
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Eschbaum, F. A., Ltd.  
Maw, S., Son & Sons  
Sangers  
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Reuter, R. J.

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Meinecke & Co.

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Evans Sons Lescher & Webb Ltd.  
Maw, S., Son & Sons  
Reuter, R. J.

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### BETTER POWDER

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May & Baker, Ltd.  
Morson, T., & Son  
Reitmeyer & Co.  
Tyrer, T., & Co., Ltd.  
White, A., & Sons

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Lincoln & Midland Counties  
Drug Co.

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Wood, Vincent

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Lewis, H. K.  
Martindale's "Extra Phar."  
Southall's "Materia Medica"  
Spatula Publishing Co.  
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Rogers & Co.

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Merok, B.

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Jeyes' Sanitary Compounds, Ltd.  
Lloyd, T. Howard, & Co.  
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Mason Bros. & Chapman  
Parke, Davis & Co.  
Tye, J., & Son  
Wander, A., Ltd.  
Warrick Bros.  
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Cardamom Cess Committee

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North of England Chamois Co.

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Brunner, Mond & Co., Ltd.  
Burgoyne, Burbidges & Co.  
Burroughs Wellcome & Co.  
Corbyn Stacey & Co., Ltd.  
Crown Chemical Works, Ltd.  
Electrolytic Alkali Co., Ltd.  
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Ltd.  
Macfarlan, J. F., & Co.  
May & Baker, Ltd.  
Merck, E.  
Morson, T., & Son  
Pointet & Girard  
Smith, T. & H., Ltd.  
Sturge, John & E., Ltd.  
Tyrer, T., & Co., Ltd.  
Washington Chemical Co., Ltd.  
White, A., & Sons  
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Solport Bros.  
Wood, Vincent

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Societe d'Electro-Chimie

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Electrolytic Alkali Co., Ltd.  
United Alkali Co., Ltd.

**CHLORODYNE**

Davenport, J. T., Ltd.  
Fresman's Chlorodyne, Ltd.

**CHLOROFORM**

Alliance Drug & Chem. Co.  
Burroughs Wellcome & Co.  
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May & Baker, Ltd.  
Morson, T., & Son  
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Morson, T., & Son  
Sturge, John & E., Ltd.

**CLINICAL THERMOMETERS**

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Hicks, James J.

**COAL TAR SPECIALITIES**

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Perken, Son & Co., Ltd.  
Zeal, G. H.

**CLOTH BALLS**

O'Neil, Zetts & Co.  
Senior, Alf., & Co.

**COCKROACH PASTE**

Howarth & Fair

**COCOA**

Cadbury Bros., Ltd.

**COD LIVER OIL**

Albrethson, A., & Co.  
British Drug Houses, Ltd., The  
Charity, W., & Sons  
Devold Peder  
Jervell & Co.  
Sparks, White & Co., Ltd.  
Wright, Layman & Umney, Ltd.

**COLLAPSIBLE TUBES**

Betts & Co.  
Brooks, Peel & Co.

**COLOURS, BEVERAGE, &c.**

Barnett & Foster  
Boake Roberts & Co.  
Stevenson & Howell, Ltd.

**COLOURS, CHEMICAL**

Williams Bros. & Co.

**COMBS**

Hovenden, R., & Sons, Ltd.  
Maw, S., Son & Sons  
May, Roberts & Co., Ltd.  
Newbery, Francis & Sons, Ltd.

**CONDENSERS**

Bennett, Sons & Shears, Ltd.

**CONFECTIONERY COLOURS**

Williams Bros. & Co.

**CONTINENTAL PROPS.**

Wilcox, Jozeau & Co.

**COPPERSMITHS**

Braithwaite, H., & Co., Ltd.

**CORKS**

Ayrton, Saunders & Co., Ltd.  
Mitchell, N. W., & Sons, Ltd.  
Swales, Thomas  
Viscose Development Co., Ltd.

**CORN EXTERMINATOR**

Gardner

**CORN PLASTERS**

Solport Bros.

**COUNTER ADJUNCTS**

Evans Sons Lescher & Webb Ltd

**COUNTER BILLS**

Ford, Shapland & Co.

**COUNTER DISPLAY STANDS**

London & Colonial Mfg. Co.

**COUNTER SPECIALITIES**

Allen & Hanburys, Ltd.  
British Drug Houses, Ltd., The  
Hewlett, C. J., & Sons  
Lloyd, T. H., & Co., Ltd.  
Lorimer Marshall  
May, Roberts & Co., Ltd.  
Newbery, F., & Sons, Ltd.  
Southall Bros. & Barclay, Ltd.

**COURT PLASTER**

Pharm. Indust. Ges. (Offen-  
bach)  
Solport Bros.

**CREAM OF TARTAR**

British Drug Houses, Ltd., The

**CREOSOTE**

Baiss Bros. & Stevenson, Ltd.  
Burt, Boulton & Haywood, Ltd.  
Morson, T., & Son

**CREPE BANDAGES**

Burge, Warren & Ridgley, Ltd.  
Gimber, W., & Son  
Leslies, Ltd.

**Norwich Crêpe Co. (1856), Ltd.**

Wood, Vincent

**CRUTCHES**

Bush, H. W., & Co., Ltd.  
Maw, S., Son and Sons

**CYANIDES**

May & Baker, Ltd.

**DAIRY SPECIALITIES**

Fullwood, R. J., & Bland  
Oldfield, Pattinson & Co.

**DENTAL INSTRUMENTS**

Hatrick, Jas. L., & Co., Ltd.

**DENTAL MECHANICS**

Browning, A. J.  
Cullwick H. E.  
Fentiman, A. G.

**DEVELOPERS**

Express Developing Co.

**DEXTRINE**

Fink, F., & Co.

**DIABETIC FOODS**

Ayrton, Saunders & Co., Ltd.  
Brusson Jenne  
Van Abbot, G., & Sons

**DIGESTIVE PRODUCTS**

Armour & Co., Ltd.  
Benger's Food, Ltd.  
Fairchild Bros. & Foster  
Parke, Davis & Co.

**Squire & Sons**

Widenmann, Broicher & Co.

Zimmermann, O., & Co.

**DENTIFRICES**

Bash & Co.  
Beecham, T.  
Bell (John), Hills & Lucas, Ltd.  
Blackie, Robert  
Calvert, F. C., & Co.  
Christy, T., & Co.  
Cook, E., & Co., Ltd.  
Euorly, Ltd.

Jewsbury & Brown

John Strange Winter

Knox, Walker, J., & Co.

Lambert Pharmacal Co.

McKesson & Robbins (Insect)

Mason Bros. & Chapman

Maw, S., Son & Sons

Newbury, F., & Sons, Ltd.

Odol Chemical Works

Riedel, J. D., & Co.

Sangers

Standard Tablet & Pill Co., Ltd.

Woolley, J., Sons & Co., Ltd.

**DEVELOPERS (PHOTO)**

Griffin, John J., & Sons, Ltd.

Johnson & Sons (Mfg. Ch.),  
Ltd.

**DISINFECTANTS**

Baiss Bros. & Stevenson, Ltd.  
Burt, Boulton & Haywood, Ltd.  
Calvert, F. C., & Co.

Condy & Mitchell, Ltd.

Cook, E., & Co., Ltd.

Jeyes' Sanitary Compds., Ltd.

Sanitas Co., Ltd.

Tomlinson & Hayward, Ltd.

Willows, Francois B. & T.

Wright, Layman & Umney, Ltd.

**DOUCHES**

Eschbaum, F. A., Ltd.  
Maw, S., Son and Sons  
Reuter, R. J.

**DRUGGISTS' SUNDRIES**

Ayrton, Saunders & Co., Ltd.  
Barclay & Sons, Ltd.

Berliner, Arthur

Burge, Warren & Ridgley, Ltd.

Bush, H. W., & Co., Ltd.

Christy, T., & Co.

Edwards, W., & Son

Evans Sons Lescher & Webb Ltd

Hovenden, R., & Sons, Ltd.

Maw, S., Son & Sons

May, Roberts & Co., Ltd.

Newbery, F., & Sons, Ltd.

Pothe, H., & Co.

Quelch, H. C., & Co.

Reuter, R. J.

Sangers

Schutze, F., & Co., Ltd.

Shirley Bros., Ltd.

Solport Bros.

Southall Bros. & Barclay, Ltd.

Swales, Thomas

Toogood, W., Ltd.

Wattenbach, O.

Woolley, J., Sons & Co., Ltd.

**DRUGS, CRUDE**

Baiss Bros. & Stevenson, Ltd.  
Brook, Parker & Co., Ltd.

Gathergood's Exor.

Goodall, Backhouse & Co.

Hornor & Sons

Potter & Clarke, Ltd.

Ransom, W., & Son

Schmitt & Wildenhayn

Sparks, White & Co., Ltd.

**DYES**

Crawshaw, E., & Co.  
Judson, Daniel & Son

Whitaker & Co. (Hat)

**DYEWARES**

Clemons, Marshall & Carbert

**EAU DE COLOGNE**

Farina, J. M.  
Farina, J. M. (No. 4)

Farina, Johann Maria

Flores, Courtenay & Co.

McCracken, J. & R.

Schutze F. & Co., Ltd.

Van Oppen Ross & Co.

**EAU DE COLOGNE SOAP**

Van Oppen Ross & Co.

**EFFERVESCENT PREPS.**

Bishop, Alfred, Ltd.  
Bristol-Myers Co.

Guest, Thos. & Co.

Lloyd, T. Howard & Co.

Wright, Layman & Umney, Ltd.

**ELASTIC HOSIERY**

Ayrton, Saunders & Co., Ltd.  
Burge, Warren & Ridgley, Ltd.  
Haywood, J. H., Ltd.

Maw, S., Son & Sons

Surgical Hosiery Co. Ltd.

Wood, Vincent

**EDUCATIONAL INSTITS**

Bath & West of England College  
Birmingham & Midland College  
Borough Polytechnic  
College of Preceptors  
Glasgow School of Pharmacy  
Liverpool School of Pharmacy  
London College of Pharmacy  
North of England School  
Northern College of Pharmacy  
South of England College  
Westminster College

**ELASTIC GUM INSTS.**

Mason Bros. & Chapman

**ELECTRICAL NOVELTIES**

Evans Sons Lescher & Webb, Ltd.  
Millard Brothers, Ltd.  
Ward & Goldstone

**EMERY AND CLOTH**

Oskey, J., & Son, Ltd.

**EMULSIFIERS**

Bennett, Sons & Shears, Ltd.

**EMULSIONS, C. L. O. &c.**

Ayrton, Saunders & Co., Ltd.  
Basis Bros. & Stevenson, Ltd.

**ENEMAS**

Bailey, W. H., & Son  
Burge, Warren & Ridgley, Ltd.  
Daviol Rubber Co.  
Maw, S., Son & Sons  
Newbery, F., & Sons, Ltd.  
Warne, W., & Co., Ltd.

**EPSOM SALTS**

Corbyn, Stacey & Co., Ltd.  
Howards & Sons, Ltd.

**ESSENCES, CONCRETE**

Lautier Fils  
Tombarel Frères

**ESSENCES, SOL. AND FRUIT**

Alliance Drug & Chem. Co.  
Barnett & Foster  
Boake Roberts & Co., Ltd.  
Bush, W. J., & Co., Ltd.  
Hay, Wm., Ltd.  
Lautier Fils  
London Essence Co.  
Newball & Mason  
Stevenson & Howell, Ltd.

**ETHERS**

Basis Bros. & Stevenson, Ltd.  
Duncan, Flockhart & Co.  
Howards & Sons, Ltd.  
Macfarlan, J. F., & Co.  
May & Baker, Ltd.  
Tyrer, T., & Co., Ltd.  
Whitaker, A., & Sons

**EUCALYPTUS OIL**

British Drug Houses, Ltd., The

**EXTRACT OF HERBS**

Newball & Mason  
Potter & Clarke, Ltd.

**EXTRACTS MEDICINAL**

Allen, Stafford, & Sons, Ltd.  
Evans Sons Lescher & Webb Ltd.  
Gathergood's Exor.  
Hewlett, C. J., & Son, Ltd.  
Parke, Davis & Co.  
Ransom, W., & Son

**FACTORY SITES**

North-Eastern Railway  
Great Western Railway

**FEEDING BOTTLES**

Bush, Henry, W., & Co., Ltd.  
Evans Sons Lescher & Webb Ltd.  
Horlick's Malted Milk Co.  
Hovenden, R., & Sons, Ltd.  
Maw, S., Son & Sons  
Reuter, R. J.  
Sangers  
Schütz, F., & Co., Ltd.  
Shirley Bros., Ltd.

**FILTERS**

Berkfeld Filter Co., Ltd.

**FOODS, INVALID,**

Allen & Hanbury, Ltd.  
Bell (John), Hills & Lucas, Ltd.  
Benger's Food, Ltd.  
Bovril, Ltd.  
Brand & Co., Ltd.  
Cox, Arthur H., & Co., Ltd.  
Fairchild Bros. & Foster  
Horlick's Malted Milk Co.  
"John Bull" Foods, Ltd.  
Lecithin, Ltd.  
"Lemco and Oxo"  
Lofthouse & Saltmer  
Menley & James, Ltd.  
Natural Food Co., Ltd.  
Neave, Josiah R., & Co.  
Theinhardt's Food Co.  
Turtle Cup (1911), Ltd.  
Wander, A., Ltd.  
Willows, Francis, B. & T.

**FLESH GLOVES, STRAPS, &c.**

Koster, H. J.  
Sangers  
Solport Bros.

**FLYCATCHERS**

Alabastine Co. (British), Ltd.  
Brook, Parker & Co., Ltd.  
Deansmere Manfg. Co.  
Ford, Shapland & Co.  
Kay Bros., Ltd.  
Smith, J. H., & Co.  
Tunbridge & Wright

**FULLER'S EARTH**

Mumford, G. S., & Sons

**FUMIGATORS**

Sanitas, Co., Ltd.

**FURNITURE POLISH**

Elvee Company

**GLAUBER'S SALT**

Bramwell, E., & Son  
Howards & Sons, Ltd.

**GLYCERINE**

Meffert, Hermann & Co.  
Price's Patent Candle Co., Ltd.

**GLYCERINE PLANT**

Fyrshaw, E., & Sons, Ltd.

**GLYCEROPHOSPHATES**

Merck, E.  
Pointet & Girard  
Reitmeyer & Co.

**GOLD PAINT**

Judson, D., & Son

**GRAPHITE**

Kahn & Co.

**GRINDERS, DRUG, &c.**

Allen, Stafford, & Sons, Ltd.  
Goodall, Backhouse & Co.  
Willows, Francis, B. & T.

**GRIPE WATER**

Woodward, W., Ltd.

**GUMS**

Fink, F., & Co.  
Kidston, W. M., & Co.

**HAIR DYES**

Blackie, Robert  
Harker, Stagg & Morgan, Ltd.  
Knox Walker, J., & Co.  
Osborne, Garret & Co.

**HAIR PREPARATIONS**

Anglo-Continental Trading Co.  
Blackie, Robert  
Cheesbrough Manfg. Co.  
Edwards' "Harlene" Co.  
Egglossa Manfg. Co.  
Harker, Stagg & Morgan, Ltd.  
Harrison, G. W.  
Herpicide Co.  
John Strange Winter  
Odol Chemical Works  
Osborne, Garret & Co.  
Robare's Aureoline  
Vibert, F.  
Warner Oliver, Ltd.

**HAT CLEANERS**

Christy, Thos., & Co.  
Senior, Alf., & Co.

**HAT DYES**

Whitaker & Co.

**HAY FEVER REMEDY**

Lu-Ku Co.

**HEATING APPARATUS**

Clark's Syphon Stove Co., Ltd.  
Richmond Gas Stove & Meter

**HERBS**

Brook, Parker & Co., Ltd.  
Pannett & Neden

Potter & Clarke, Ltd.

Ransom, W., & Son

**HOMŒOPATHIC MEDICINES**

Ashton & Parsons, Ltd.

Keene & Ashwell, Ltd.

**HOSPITAL FURNITURE**

Hatrick, Jas. L., & Co., Ltd.

**HOTELS**

Esmond Hotel  
Kingsley Hotel  
Thackeray Hotel

**HOT-WATER BOTTLES, &c.**

Berliner, Arthur  
Burge, Warren & Ridgley, Ltd.  
Gallen Manfg. Co., Ltd.  
Maw, S., Son & Sons  
May, Roberts & Co., Ltd.  
Sheath Bros.  
Southall Bros. & Barolav  
Tompkins, James, Ltd.  
Wood, Vincent

**HYPHOSPHITES**

May & Baker, Ltd.

Tyrer, T., & Co., Ltd.

**HYDROGEN PEROXIDE**

May & Baker, Ltd.

Sanitas Co., Ltd.

Tyrer, T., & Co., Ltd.

**ICHTHYOL**

Ichthvol Gesellschaft

**INK POWDERS**

Williams Bros & Co.

**INHALERS**

Burroughs Wellcome & Co.  
Maw, S., Son & Sons  
Sanitas Co., Ltd.

**INSECTICIDES**

Christy, Thos., & Co.  
Tomlinson & Hayward, Ltd.

**INSECT POWDER**

Keating, Thomas

**INSECT SUPPORTS**

Scholl, C. Manfg. Co.

**IODINE RESUBLIMED**

Howards & Sons, Ltd.

Huskisson, H. O., & Co.

**IRISH MOSS**

Cumming, J. W.  
Salle, H., & Co.

**ITROSYL**

Fletcher, Fletcher & Co.

**JARS AND POTS**

Johnsen & Jorgensen, Ltd.

Iffeier, O. A.

Reuter, R. J.

Stipendum Stopper Co.

**JELLOIDS**

Jellid Co.

**JUJUBES**

Guest, Thos., & Co.  
Potter & Clarke, Ltd.

JUNKET POWDER

Armour & Co., Ltd.

**LAMPS**

Block Light Co., Ltd.

**LANOLINE**

Burroughs Wellcome & Co.

**LARD**

Ewen, J., & Sons

**LAENDER OIL**

Jackson, John, & Co.  
Zimmermann, C., & Co.

**LAENDER WATER.**

Maddocks & Co.

**LEATHER DYES**

Williams, Bros. & Co.

**LECITHIN**

Chemical Works "Victoria"

Salle, H., & Co.

**LIME JUICE AND CORDIAL**

Evans Sons Lescher & Webb Ltd.

Goodall, Backhouse & Co.

Idris & Co., Ltd.

**LINSEED, CRUSHED, &c.**

Mumford, G. S., & Sons

Taylor, J., & Sons, Ltd.

**LINTS**

Liverpool Lint Co.

Maw, S., Son & Sons

Robinson & Sons, Ltd.

Taylor, W. G.

**LIQUORICE JUICE**

Apollo

British Drug Houses, Ltd., The

Evans Sons Lescher & Webb Ltd.

Horner & Sons

Jackson, E. E.

Mumford, G. S., & Sons

Solazzi

Whittaker, Arthur

**LIQUORS, CONC. &c.**

Fletcher, Fletcher & Co.

Hewlett, C. J., & Son

Robinson, B., & Co.

Wyleys, Ltd.

**LITHIA SALTS**

British Drug Houses, Ltd., The

May & Baker, Ltd.

**LOOFABS**

Internl. Sponge Importers, Ltd.

Solport Bros.

**LOZENGES**

Ayrton, Saunders & Co., Ltd.

Cox, A. H., & Co., Ltd.

Denoual, J., & Co.

Guest, Thos., & Co.

Jackson, E. E.

Potter & Clarke, Ltd.

Raines & Co.

Standard Tablet & Pill Co., Ltd.

Warrick Bros.

**MAGNESIA AND ITS SALTS**

Henry, T., & W.

Howards & Sons, Ltd.

May & Baker, Ltd.

Washington Chemical Co., Ltd.

**MALT EXTRACT & PREPS.**

Boulton, J., & Co.

British Diamalt Co., Ltd.

Davies, Sons & Co.

Evans Sons Lescher & Webb, Ltd.

**MANICURE PREPARATIONS**

Saunders, J. Tonzau, Ltd.

**MARKING INK**

Hickinson, A. (Bond's)

Williams Bros. & Co.

**MEDICINE TUMBLERS**

Bush, Henry W., & Co., Ltd.

**METAL GOODS**

Betts & Co., Ltd.

**MACHINERY, PHARMACAL**

Allen & Hanbury, Ltd.  
Bennett, E., & Son, Ltd.  
Bennett, Sons & Shears, Ltd.  
Boothroyd, H. T., Ltd.  
Braithwaite, H., & Co., Ltd.  
Comet Chemical Co., Ltd.  
Forshaw, E., & Son, Ltd.  
Gardner, Wm., & Sons, Ltd.  
Griffin, J. J., & Sons, Ltd.  
Pindar, J. W., & Co.  
Stokes, F. J., Machine Co.  
Wilkinson, S. W., & Co.

**MEAT EXTRACTS**

Armour & Co., Ltd.  
Bovril, Ltd.  
Brand & Co., Ltd.  
"Lemco and Oxo."  
Tooth's Extract of Meat Co.  
Turtle Cup (1911), Ltd.

**MECHANICAL SHOW****FIGURES**

Bush, Henry W., & Co., Ltd.

**MERCURIALS**

Alliance Drug & Chem. Co.

Howards & Sons, Ltd.

May & Baker, Ltd.

Tyrer, T., & Co., Ltd.

**METHYLATED SPIRIT**

Burrough, J., Ltd.

Preston's Liverpool Distillery.

Randall & Son, Ltd.

**MICROSCOPES**

Raphael's, Ltd.

**MINERAL WATERS, SALTS**

Apollinaris Co., Ltd.

British Drug Houses, Ltd., The

Hughes, E. Griffiths.

Ingram & Royle, Ltd.

Vichy (State Springs)

Vittel

**MIXERS AND SIFTERS**

Comet Chemical Co., Ltd.

Gardner, Wm. & Sons (Glost-

cester), Ltd.

**MUSTARD PLASTERS**

Rueff, Julius

**NURSES REQUISITES**

Hatrick, Jas. L., & Co., Ltd.

**OILS, MINERAL, FATTY, &c**

Allen, Stafford, & Sons, Ltd.

Price's Patent Candle Co.

Schliemann's Oil & Ceresine Co.

Stern Sonneborn Oil Co., Ltd.

**OILS, ESSENTIAL**

Allen, Stafford, & Sons, Ltd.

Alliance Drug & Chemical Co.

Boake, A., Roberts & Co., Ltd.

Bush, W. J., & Co., Ltd.

Dodge & Olcott Co.

Evans Sons Lescher & Webb, Ltd.

Jackson, John, & Co.

Lautier Fils

London Essence Co.

Poppelreuter, W.

Ransom, W., & Son.

Schimmel

**PACKED GOODS**

Allen & Hanburys, Ltd.  
Ayrton, Saunders & Co., Ltd.  
Baiss Bros. & Stevenson, Ltd.  
Blackie, Robert  
Boulton, James & Co. (1909)  
Brook, Parker & Co., Ltd.  
Cox, Arthur H., & Co., Ltd.  
Christy, Thos., & Co.  
Davies, Sons & Co.  
Goodall, Backhouse & Co.  
Harker, C. R., Staggs & Morgan  
Knox Walker, J., & Co.  
Lloyd T., Howard & Co.  
Lorimer Marshall  
May, Roberts & Co., Ltd.  
Newball & Mason  
Oldfield, Pattinson & Co.  
Potter & Clarke, Ltd.  
Sangers'  
Shirley Bros., Ltd.  
Standard Tablet & Pill Co., Ltd.

**PASTILLES**

Allen & Hanburys, Ltd.  
Asche, C. F., & Co.  
Burroughs Wellcome & Co.  
Denonal, J., & Co.  
Evans Sons Lescher & Webb, Ltd.  
Gnest, Thos. & Co.  
Warrick Bros.

**PEPPERMINT OIL**

Jackson, John & Co.

**PERFUME MATERIALS**

Bnsh, W. J., & Co., Ltd.  
Hörner & Sons  
Lantier Fils  
Naef, M., & Co., Succrs.  
Sohimmel & Co.  
Varaldi, F.  
Wright, Layman & Umney, Ltd.  
Zimmermann, C. & Co.

**PERFUMES**

Allen & Hanburys, Ltd.  
Baiss Bros. & Stevenson, Ltd.  
Barclay & Sons, Ltd.  
Bronnley, H., & Co., Ltd.  
Bush, W. J., & Co., Ltd.  
Christy, T., & Co.  
Claber, S., & Co., Ltd.  
Erasmo Co., Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Haliflor Co.  
Hewlett, C. J., & Son  
Hovenden, R., & Sons, Ltd.  
Jago & Jerome  
John Strange Winter  
Lesool Perfumery Co.  
McCracken, J., & R.  
Newbery, F., & Sons, Ltd.  
Piver, L. T.  
Quelch, H. C., & Co.  
Rivers, Hill & Co., Ltd.  
Southall Bros. & Barclay Ltd.  
Van Oppen, Ross & Co.  
Vinolia Co.  
Warrick Bros.  
West, T., & Son  
Wolf, F., & Sohn

**PESSARIES (SOLUBLE)**

Burge, Warren & Ridgley, Ltd.  
Rendell, W. J.

**PETROLEUM JELLY**

Chesebrough Mfg. Co.  
Schliemann's Oil & Ceresine Co.  
Stern, Sonneborn Oil Co., Ltd.

**PHOTO. CHEMICALS**

Boehringer, C. F., & Soehne  
Griffin, John J., & Sons, Ltd.  
Johnson & Sons (Mfg. Chts.), Ltd.  
Reitmeyer & Co.

**PHOTO. ENLARGERS,**

**PRINTERS, &c.**

Express Developing Co.

**PHOTO. GOODS**

Barclay & Sons, Ltd.  
Burroughs Wellcome & Co.  
Evans Sons Lescher & Webb, Ltd.  
Griffin, John J., & Sons, Ltd.  
Ilford, Ltd.  
Kent, G. B., & Sons, Ltd.  
Lennon, Ltd.  
May, Roberts & Co., Ltd.  
Newbery, F., & Sons, Ltd.  
Oppenheimer, Son & Co., Ltd.  
Rajar Ltd.  
Silverdale Photo Works.

**PHOTO. RUBBER GOODS, &c.**

Altrincham Rubber Co.

**PLASTERS**

Allcock Mfg. Co.  
Berliner, Arthur  
Dalmas, A. de St., & Co.  
Leslies, Ltd.

**PLEATED PAPER**

Darter, Wilkenson & Co.  
Smith Bros. & Co.

**POISON JARS**

Doulton & Co., Ltd.

**PILL MAKERS**

Allen & Hanburys, Ltd.  
Asche, C. F., & Co.  
British Drug Houses, Ltd., The  
Cox, A. H., & Co., Ltd.  
Davies, Sons & Co.  
Howards & Sons, Ltd.  
Lloyd, T. Howard, & Co.  
Parke, Davis & Co.  
Standard Tablet & Pill Co., Ltd.  
Wand Manfg. Co.  
Wyleys, Ltd.

**POLISHES (VARIOUS)**

Bradley & Bourdas  
Judson, D., & Son  
Oakey, J., & Sons, Ltd.

**POSTAL BOXES**

Robinson & Sons, Ltd.

**POSTERS**

Ford, Shapland & Co.

**PRINTERS**

Arden Press  
Ford, Shapland & Co.  
Harrison & Waide  
Suttley & Silverlock, Ltd.  
Townsend, J., & Sons

**PROPRIETARY ARTICLES**

Ashton & Parsons, Ltd.  
Barclay & Sons, Ltd.  
Beecham, T.  
Bovril, Ltd.  
Bow's Linament, Ltd.  
Box, W. H.  
British Drug Houses, Ltd., The  
Burgess, E.  
Chameleon Oil Co., Ltd.  
Christy, T., & Co.  
Corbyn, Stacey & Co., Ltd.  
Crimson Cross Dispensary  
Daisy, Ltd.  
Danyss Virus, Ltd.  
Davenport, J. T., Ltd.  
Edwards, W., & Son  
Evans Sons Lescher & Webb, Ltd.  
Faulding, F. H., & Co.  
Fellows' Med. Mfg. Co.  
Fennings, Alfred  
Ferris & Co.  
Freeman's Chlorodyne, Ltd.  
Fnlford, O. E., Ltd.  
Goodall, Backhouse & Co.  
Harrison, Geo. W.  
Henry, T. & W.  
Hughes, E. Griffiths  
Ichthyol Gesellschaft  
Kay Bros., Ltd.  
Keating, Thomas  
Kutnow, S., & Co., Ltd.  
Lalor's Phosphodyne  
Lecithin, Ltd.  
"Lemco" and "Oxo"  
Lincoln & Midland Counties  
Drug Co.  
Lofthouse & Saltmer  
"Lo-Ku" Co.  
Mackenzie's Cure Depot  
Martindale, W.  
May, Roberts & Co., Ltd.  
Munyon's Remedy Co.  
Newbery, F., & Sons, Ltd.  
Odol Chemical Works  
Oppenheimer, Son & Co., Ltd.  
Owbridge, W. T., Ltd.  
Phillips, Chas. H., Chem. Co.  
Resinol Chemical Co.  
Richter, C., & Co.  
Riedel, J. D., Co.  
Sangers'  
Saville Bros.  
Sohimmel & Co.  
Scott & Bowne, Ltd.  
Squire & Sons  
Standard Tablet & Pill Co., Ltd.  
Thompson & Capper  
Tunbridge & Wright  
Urillac Syndicate  
Wander, A., Ltd.  
Warner Oliver, Ltd.  
Warrick Brothers  
Wilcox, Jozeau & Co.  
Zimmermann, C., & Co.

**RECIPES**

Brooks, Tom

**RESIN AND RESINOIDS**

Allen, S., & Sons, Ltd.  
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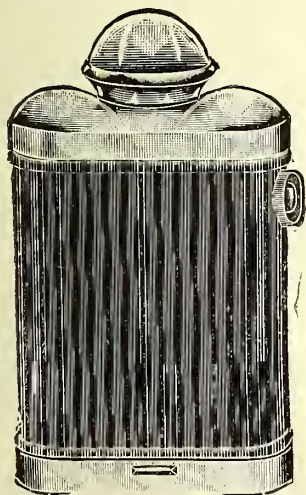
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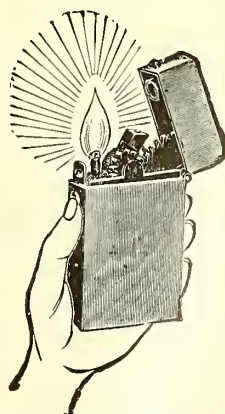
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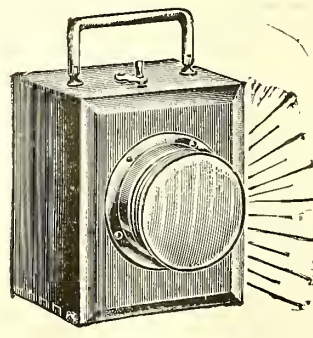
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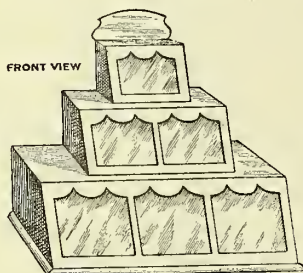
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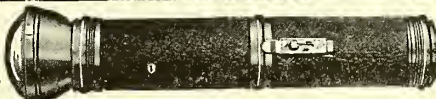
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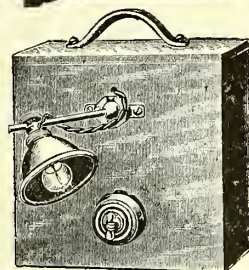
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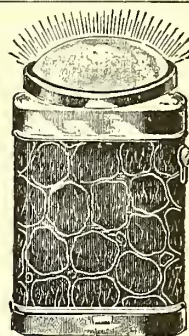


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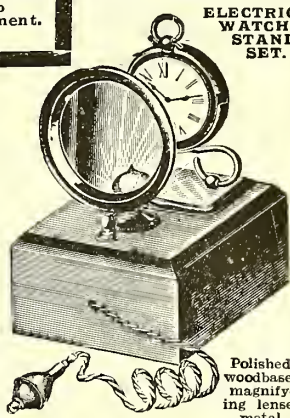
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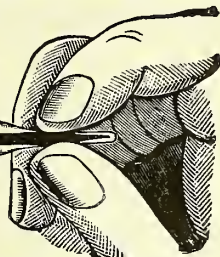
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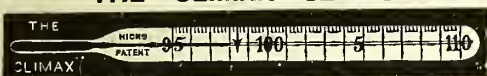
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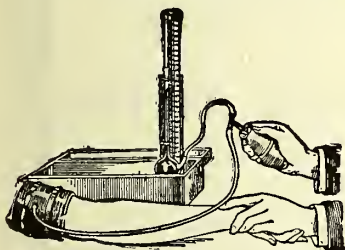
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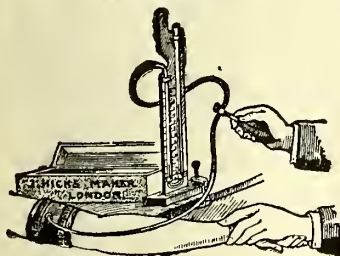
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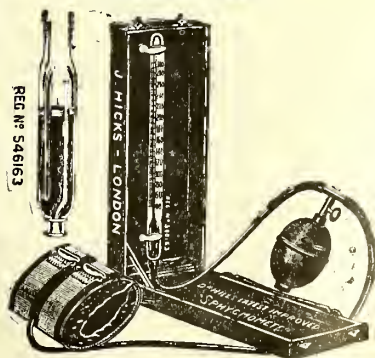
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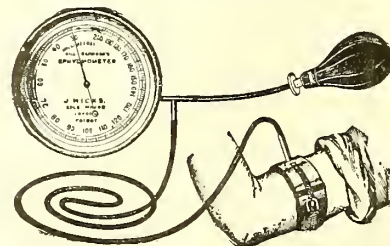


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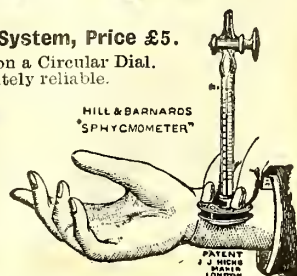


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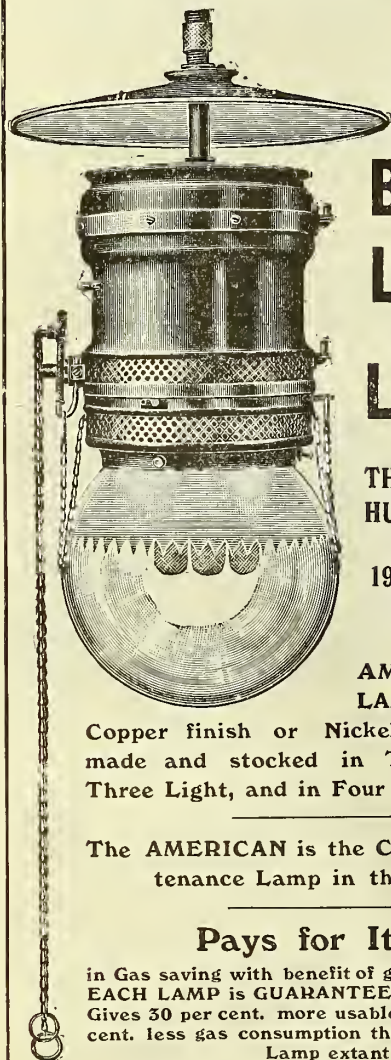
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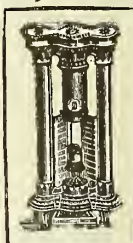
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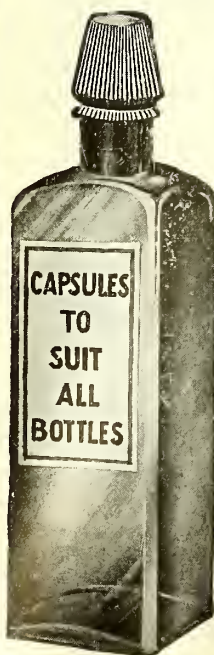
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In bottles, 6d. each, in separate neat cartons, with suitable brush. These Dyes are a distinct invention, dying the straw without an objectionable varnished appearance, and producing the effect of new goods.

Write for terms, patterns, also leaflet of testimonials:

**WHITAKER & CO. COLOUR WORKS,**  
KENDAL, ENG.

London Depot: 8 MILK STREET, CHEAPSIDE, E.C.

SPECIALISTS IN VARNISHES, STAINS, DYES, &c. EST. 1878.

# The great HAIR TONIC

## IT PAYS TO SELL

1/- size,	8/- per doz.
2/6 "	20/- "
<b>NO CUTTING</b>	

Of Wholesale Houses or direct  
from

**EGGLOSSA MFG. CO.**  
Gloucester Road,  
BRISTOL

# EGGLOSSA

# You know

how the sales went up last year when the public were told of the remarkable body-building powers of Bovril.

The results of last year's striking experiments, which proved the body-building powers of Bovril to be from 10 to 20 times the amount taken, have been more than confirmed by further experiments this year.

When this is announced to the public, it must result in further

## increased sales.

Order your stock of Bovril EARLY and be ready to meet the huge demand. Bovril needs no pushing; it pays the retailer best because it sells quickest.

Again this year Bovril Ltd. are offering a 5%

## Cash Bonus

on all orders received between September 11th and October 31st inclusive. This bonus is computed on the gross purchases. Full particulars may be had from Bovril Ltd., 152-166 Old Street, London, E.C.

# BOVRIL

Extract from letter received from Messrs. Wells & Co., Salisbury: "Your books will tell you we deal largely in your splendid food."



# THE NATURAL MINERAL WATER OF

# CÉLESTINS

## (VICHY ÉTAT)

For DISEASES of the KIDNEYS, GRAVEL, GOUT, RHEUMATISM, DIABETES, etc.

**"GRANDE-GRILLE"** For Diseases of the Liver and Biliary Organs, &c.

**"HÔPITAL"** For Stomach Complaints, Indigestion, &c.

**VICHY-ÉTAT PASTILLES** Two or three Pastilles after each meal facilitate digestion.

Price List, Show Cards, Dummy Bottles, Pamphlets, etc., on application.

**CAUTION.**—Each Bottle of VICHY from the STATE SPRINGS bears a neck label with the words "VICHY ÉTAT" and the name of the SOLE AGENTS:

**INGRAM & ROYLE, LTD.,** BANCOR WHARF,  
45 BELVEDERE RD., LONDON, S.E.

And at LIVERPOOL and BRISTOL.

# A. MILLAR & CO., LTD., DUBLIN

# PURE ORANGE WINE

(VINUM AURANTII, B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only.)

London Agent: JAMES STIRTON, 23 ST. DUNSTON'S HILL, E.C.

Established  
1855.

**ROBINSON'S ORIGINAL** Excise Drawback on Export Orders.

# CONCENTRATED WATERS.

STANDARDISED TO B.P. 1898.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.	Aqua Cassiæ Conc.	4/- per lb.	Aqua. Ment. Virid. Conc.	4/- per lb.
" Anethi, Concent.	4/- "	" Flor Aurant.	3/6 "	" Pimentæ "	4/- "
" Anisi "	4/- "	" Sambuci Conc.	3/6 "	" Pulegii "	4/- "
" Camphoræ "	4/- "	" Fœniculi Conc.	4/- "	" Rosmarini "	4/- "
" Carui "	4/- "	" Menth. Pip. Conc.	4/- "	" Rosæ "	8/6 "
" Cinnam. Ver. Conc.	6/- "	" Ang. Conc.	6/- "	" Virgin "	10/6 "

The above may be had in ½-lb., ¼-lb., or 1 lb. Bottles and upwards through most of the Wholesale Drug Houses. Each Bottle has the Inventor's Protection Label over the Cork, without which none are genuine.

# SUPERIOR ORANGE WINE (Vin. Aurantii, B.P. 1898).

Samples of any of the above, sent free on application, from

**ROBINSON & CO., LTD.,** Distillers and Brewers of British Wines, **CHURCH ST., PENDLETON, MANCHESTER.**

Telephone 138 Pendleton.

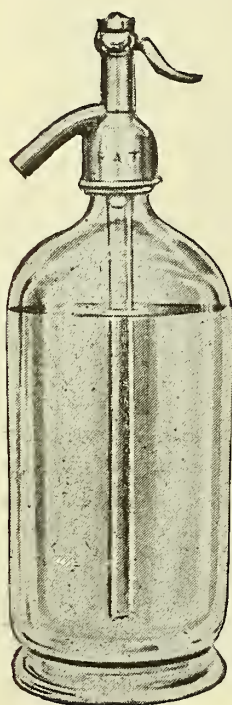
## Some Facts about the Superiority, Salubrity, and Palatability of the "Camwal" Waters.

<b>Scientific Analysis</b>	Camwal have on their staff highly qualified Analytical Chemists who are constantly examining, testing, and analysing the output from each of the Company's Six Factories, and who thoroughly investigate the quality and purity of the numerous ingredients used in the manufacturing processes.
<b>Pure Ingredients</b>	Camwal buy and use only the best and purest ingredients and materials from makers of high repute.
<b>Special Water</b>	Camwal pay special attention to the <i>quality of the water</i> they use. Several of their Factories use water of extreme purity obtained from specially bored Artesian Wells. Where the local water supply is made use of, the water is of excellent quality, and is furthermore carefully filtered.
<b>Sanitary Factories</b>	Camwal Factories hold Certificates (wherever the Local Authorities make a practice of granting them) for the sanitariness of their Factories and the salubrity of their manufacturing methods.
<b>No Metallic Risks</b>	In every factory all machines are silver-lined, and all piping of pure tin. All Syphon heads are of pure block tin, thus obviating the risk of any metallic contamination.
<b>Medicinal Value</b>	Unlike some brands of Mineral Waters, which consist merely of plain water and carbonic acid gas, the "Camwal" Waters contain the requisite quantities of the Salts as stated on the "Camwal" labels, "Camwal" Lithia, Soda, Potass, &c., thus possessing real medicinal and beneficial value.
<b>Skilled Critics</b>	"Camwal" Waters are subject all the year round to the criticism of between 4,000 and 5,000 experts—viz. the Chemists by whom they are retailed.
<b>Official Appreciation</b>	Camwal, a Company of 32 years' standing, with Six Factories in different parts of England, supply their Waters to H.M. Government, and have obtained many Awards of Gold Medals, Certificates of Merit, &c., for the purity and general excellence of their Waters.

"Mr. Chemist,—It is well to impress upon your customers that, simple an article though Soda Water may appear, it requires scientific knowledge, expensive machinery, and expert handling to produce it properly; and the Public should be warned that danger lurks in beverages made (as is sometimes the case) under insanitary conditions and without the requisite scientific supervision."

Would you like to talk over with a "CAMWAL" Representative a Scheme for increasing your Sales of "CAMWAL" WATERS?

**CAMWAL, Ltd.,**  
London, Manchester,  
Birmingham, Bristol,  
Harrogate & Mitcham.



# PURE ALUMINIUM TOP SYPHONS.

**GUARANTEED FREE FROM LEAD AND ARSENIC.**

The same shape, style and appearance as the present Syphon Tops, but cast in **Pure Aluminium**—the purest of all commercially workable metals—instead of tin, &c., thus removing the great and ever-present risk of metallic contamination of the waters, and obviating the necessity for cumbersome and expensive porcelain-lined Syphons.

ALUMINIUM is six times as strong and durable as tin!

ALUMINIUM, when polished, looks like silver and does not oxidise or tarnish.

ALUMINIUM, when melted down, has comparatively no value, and offers **no temptation for stealing**—as with tin tops.

ALUMINIUM is very light—half the weight of tin—and so effects considerable saving in cost of carriage and dead weight on delivery vans.

The **P.A.T. Syphon Tops** are cast in **one piece**—no join at the nozzle or spout as with present Syphons, thus obviating the leakage of gas which always occurs when using tops with nozzles joined on.

The **P.A.T. Syphon Vases** are the finest Bohemian make.

The **P.A.T. Syphon Tops** are made in England, and fitted to the vases and tested—all by British labour.

The **P.A.T. Syphon Tops** effect a considerable saving in time and labour in cleaning and polishing.

For Prices and Full Particulars apply to the Sole Selling Agents

**L. LUMLEY & CO., LTD.,**  
1 AMERICA SQUARE,  
MINORIES, LONDON, E.C.

**TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.**  
FOR QUOTATIONS apply to—

**PRESTON'S LIVERPOOL DISTILLERY CO., LD.**

The Largest Makers in the Kingdom.

**BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL.** Office: 4 India B'ngs, Water St., Liverpool.

## SODA-WATER MACHINERY.

*By the use of our latest Back Pressure Filling Machines only half the usual quantity of Gas is used for the manufacture of the Highest quality Soda-water, either in Syphons or Bottles.*

### THE "COMPACT" MACHINES

are specially designed for  
**CHEMISTS, GROCERS, RESTAURATEURS,**

and everyone to whom space is an object,  
and can be used for filling Syphons, Codd's  
Bottles, or Cork Bottles.

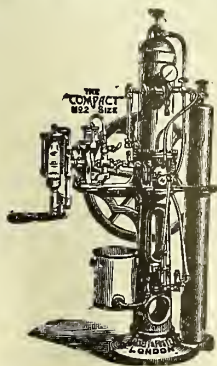
**OCCUPY LITTLE SPACE!**

**ARE READY FOR USE IMMEDIATELY!**

**REQUIRE NO FIXING!**

Produce Soda Water, Lemonade, &c., of the  
highest class and greatest purity.

**Write for Catalogue.**



**A COMPLETE APPARATUS—  
CAPABLE OF PRODUCING OVER  
300 DOZEN LARGE BOTTLES  
OF AERATED WATER PER DAY  
—FROM £20.**

Bottles, Boxes, Essences, and all  
Requisites for the Trade at  
Lowest Prices.

**BARNETT & FOSTER, Niagara Works, 26<sup>T</sup> Eagle Wharf Road, N.**

*Proprietors of Galloway Bros., Bolton.*

# TO SWELL YOUR BANK BALANCE

## INCREASED RETURNS—THE ONLY WAY.

What nearly every Chemist to-day feels *most in need of* IS INCREASED RETURNS. His Profits are not what they were, his expenses constantly tend upwards, and competition was never so keen.

Diagnosis is easy, the remedy not always apparent, for to increase returns more custom must be brought in.

We are prepared to show you how we will  
help you to largely increase your returns.

IT WILL COST YOU  
NOTHING !

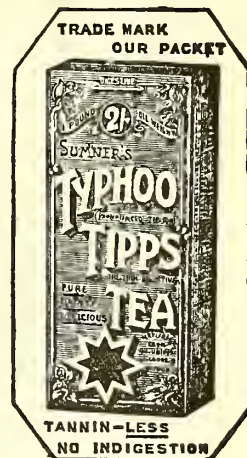
Then why not investigate ?

SUMNERS *Typhoo* TEA LIMITED.

HEAD OFFICE. (FOR ALL CORRESPONDENCE)

CASTLE ST BIRMINGHAM.

LONDON { CLEARING OFFICE: LLOYDS AVENUE HOUSE: E.C.  
{ BONDED STORES: COMMERCIAL ROAD: E.



**DROP  
US  
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CARD  
TO-DAY**

for Sample  
Packet  
and Terms.

## Economical Warmth at Will.

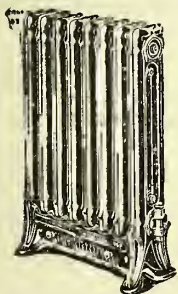
You can obtain Warmth at Will and thus combat the cold draughts caused through the opening and shutting of doors in your Shop by installing

### RICHMOND'S Gas Steam RADIATORS

which generate an even and suitable temperature. Highly efficient and economical in gas consumption. No excavation necessary. Only a gas connection required.

Booklet No. 48 free.

**The RICHMOND GAS STOVE & METER CO., Ltd.,**  
132 QUEEN VICTORIA STREET, E.C. Works: Warrington.



**VEROX** FLUID BEEF.  
ALL BEEF & ALL BRITISH.

**30% Profit at least. :: Order now to secure Bonus.**

**TOOTH'S EXTRACT OF MEAT CO.**  
12 DUKE STREET, S.E.

ESTABLISHED 1865.

TELEPHONE, 7368 CENTRAL.

## SAL HEPATICA.

PUT UP FOR EXPORT.

Small size, 3 oz. bottle, in case.  
Medium " 7 " " "  
Large " 16 " " "

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C.

The American Drug Stores, 24 Orange Street, Haymarket, London, W.C.

Burgoyne, Burbidges & Co., 16 Coleman Street, E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse Square.

Roberts & Co., 76 New Bond Street, W.



Purveyors by Special Appointment



to H.I.M. The Empress of Russia.

# Neave's Foods

For Infants,  
Invalids and  
the Aged.

## NEAVE'S MILK FOOD.

Introduced for those requiring a *Milk Food* for Babies from Birth.

It is absolutely free from starch, rich in fat and in composition very closely resembles Mother's Milk.

Instantly prepared by adding Hot Water only.

MEDICAL REVIEW, Nov., 1910.—"When diluted with water, yields a preparation almost identical with human milk."

## NEAVE'S FOOD.

"An excellent Food, admirably adapted to the wants of Infants."

SIR CHAS. A. CAMERON, C.B., M.D., etc.

Contains all the essentials for flesh and bone forming in an exceptional degree.

Nearly 90 Years Reputation.

GOLD MEDALS, LONDON: 1900 and 1906, also PARIS.

## NEAVE'S HEALTH DIET.

A delicious and nourishing milk and cereal diet for general use, acceptable to those who dislike the usual form of "gruel." Valuable in cases of general debility and dyspepsia, providing full nourishment with small exertion to the digestive organs.

Awarded the Certificate of the Incorporated Institute of Hygiene, London.

Write for Price List, Showcards and Advertising Matter **JOSIAH R. NEAVE & Co., Fordingbridge, England.**

# VITTEL

VOSGES,  
FRANCE.

*Vittel Spa has many  
attractions for visitors.*

*Full particulars  
on application*

## GRANDE SOURCE.

The TABLE WATER for Arthritis,  
Gout, and Kidney Troubles. . . . .

## SOURCE SALÉE.

The TABLE WATER for Constipation,  
Complaints of the Liver and Stomach,  
Gall Stones, Glycosuria, &c. . . . .

9,000,000 BOTTLES SOLD ANNUALLY.

**VITTEL, 12 Mark Lane, LONDON, E.C.**



**AYRTON SAUNDERS & CO. LTD.**  
WHOLESALE DRUGGISTS  
34 HANOVER ST LIVERPOOL  
Correspondence Invited.

## Lofthouse & Saltmer

LTD.

—Wholesale and Export Drug—  
Merchants, Manufacturing Chemists,

**HULL,**

invite the attention of the Trade to the following well tried preparations which carry a big P.A.T.A. retail protected profit, and are well known and valued by the public in many parts of the country.

**Losali's Asthma Remedy.** } PROTECTED  
Very effective Remedy for Asthma, } RETAIL PRICE. DOZ.  
Bronchitis, &c. } 1/- 7/6

**Losali's Salt.** } 6d. 3/6  
The popular Remedy for Eczema, Gout, } 1/- 7/-  
Rheumatism, and Biliousness, Well } 1/6 10/6  
advertised.

**Prepared Barley ("CROWN" BRAND).** } bottles.  
Usual 1/- size, 1-lev lid tins, for children } 4/-  
and invalids. } net.

**Malted Food.**  
Usual 1/- size, 1-lev lid tins. Name and }  
address free on 3 dozen. }  
Special design label with name and }  
address on gross orders, if desired. } 4/6

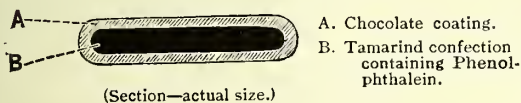
London Agents: **F. NEWBERY & SONS, Ltd.**

YOU WILL FIND OUR

# Tamarind Dragees

a good selling line at all times.

They are a chocolate coated Tamarind confection containing Phenolphthalein. They offer an exceedingly pleasant, non-irritating remedy for the relief of habitual constipation, and are particularly suited to children and fastidious persons.



Supplied in artistically labelled Boxes, containing 12 Dragees, at 7/- per dozen. Name and address printed on two dozen quantities.

With six dozen orders we supply Display Card and Name and Address Counter Bills, which will sell them and bring repeat orders.



**A. WANDER, Ltd., 1 & 3 Leonard St., London, E.C.**

T 20

## ON THE P.A.T.A. LIST

☐ In consequence of extensive advertising in the best London and Provincial Journals, coupled with its magnificent and unvarying quality, and the further fact that it is widely and regularly prescribed by the medical profession



# SCOTT'S

# EMULSION



☐ Sells quickly.

☐ All you have to do is to hand out the bottle and take in the money.

☐ More than that, people's experience of the first bottle prompts them to come to you again, so that every bottle sold promises the sale of more bottles. Once a customer, always a customer where Scott's is concerned.

**Your stock will never be left long on your shelves—it is for you to see that you keep pace with the demand.**

TRADE  
MARK

**SCOTT & BOWNE, Ltd. 10-11 Stonecutter Street, London, E.C.**

# "LU-KU"



The Reliable  
PREVENTIVE & CURE  
for  
**NASAL  
CATARRH,  
HEAD COLD,**  
and  
CATARRHAL DEAFNESS.

**Sells Well.**  
RETAIL 1/1½ BOX.

On P. A. T. A. List.

**"LU-KU" ARCADE BUILDINGS,  
BURTON-ON-TRENT.**

## LISTERINE

The Popular American Antiseptic.

A non-toxic antiseptic of known and definite power prepared in a form convenient for immediate use; of ready dilution, slightly, pleasant, and sufficiently powerful for all purposes of asepsis—these are advantages which Listerine embodies.

The success of Listerine is based upon merit, and the best advertisement of Listerine is—Listerine.

### LISTERINE DERMATIC SOAP

Designed to meet the most exacting requirements of a saponaceous detergent for use in the antiseptic treatment of diseases of the skin. No animal fats, and only the best vegetable oils enter into its composition, and of these it contains a surplus, "superfatted." It is a bland, uniritating and remarkably efficient soap.

### LISTERINE TOOTH POWDER

This powder is not intended to supplant Listerine in the daily toilet of the teeth, but is offered in response to the demand for a frictionary dentifrice to be used in conjunction with this well-known and time-tried antiseptic.

Listerine Tooth Powder, like Listerine, will advertise itself by its intrinsic merit.

BRITISH TRADE SUPPLIED BY

MAW, SON & SONS, 7 to 12 Aldersgate St., London, E.C.

General Agents for Great Britain.

FOR DESCRIPTIVE LITERATURE, ADDRESS—

**LAMBERT PHARMACAL CO., St. Louis, U.S.A.**



## CHAMOIS WASH LEATHERS.

HOUSEMAIDS' GLOVES. GARDENING GLOVES. MOTOR GLOVES. TOILET CHAMOIS.

Round, Square, Oval. Packed in neat Boxes. Special discounts for quantities. Write for Sample Boxes or Kips on approval.

THE NORTH OF ENGLAND CHAMOIS CO. LD. Manufacturers, Newcastle-on-Tyne.

IN BOXES (12 skins)  
From 12 x 12 to 32 x 32  
Prices 4/- to 32/6 doz.

IN KIPS (30 skins)  
From 8 x 9 to 32 x 32  
Prices 4/6 to 82/- Kip.



# W. EDWARDS & SON,

157 Queen Victoria Street,

239 & 240 Upper Thames Street,

LONDON, E.C.

WHOLESALE AND EXPORT DEALERS IN

## Proprietary Medicines & Druggists' Sundries

English, American, French, &c.

**SOLE AGENTS FOR ROCHE'S HERBAL EMBROCATION,**

Burchell's Anodyne Necklaces; Ford's Balsam of Horehound; Bertelli's Catramin Pills, &c.; Bovinine, a perfect Invalids' Food; Pacita, remedy for Horses, Dogs, &c.; Balm of Bethesda; C. & A. Oldridge's Balm of Columbia; Gombault's Veterinary Preparations; the Oleusaban Eucalyptus Disinfectants; Clark's Neuralgic Tincture; Ibeson's Foot Rot Ointment; Woolley's Candy; Digena Tea; Nolene Preparations; Seymour, Hamilton & Co.'s Preparations.

Special Agents for the Concentrated Liquors and other preparations of Messrs. Fletcher & Fletcher.

PRICE LISTS SENT ON APPLICATION.

ORDERS CAREFULLY AND PROMPTLY EXECUTED.

Telegraphic Address—"MEDICINES LONDON."

Agencies undertaken on advantageous terms for Proprietary Articles and other goods.

Telephones No. 285 BANK & No. 5698 Central.

# 'HAZELINE'

(TRADE MARK)

## CREAM

This charming emollient deserves special prominence in every display of winter preparations.



Reduced Facsimile

It is a typical example of the reliable and elegant products of the house of B. W. & Co. It satisfies the most critical customers.

*Supplied in collapsible tubes of two sizes, at 6/0 and 10/0 per dozen, respectively, and in glass pots, at 11/0 per dozen.*

*Prices are subject*



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MONTREAL

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SHANGHAI

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*London Exhibition Room: 54, WIGMORE STREET, W.*

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LONDON, N.

CHOCELLÆ.  
PULVELLÆ.  
FLEXOIDS.  
FLEXETTES.  
FIZZLETS.  
REFRESHLETS.  
EXTRAITS AUX FLEURS.  
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POMADES (FLORAL).  
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PERFUMES.  
CACHOUS.  
FRAGRETS.  
PERLES.  
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PERFUMERY (CINET'S)  
AMULETS.  
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TOILET SOAPS  
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CACHETS.  
CACHET APPARATUS.  
ZEPHYR BUTTONHOLES.  
CAPSULES.  
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Also Special Agents for:  
JELLOIDS.  
IRON JELLOIDS.

**Maddocks' Old English  
Lavender Water.**

MADDOCKS & CO., Wholesale Perfumers,  
4 NILE STREET, LONDON, N.

**HENDRIE'S SOAPS  
& PERFUMERY**

Wholesale Perfumers,  
R. HENDRIE & CO., 4 NILE STREET, LONDON, N.



**A Weekly Journal of the Chemical and Drug Trades**  
and of  
**British Pharmacists throughout the Empire.**  
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading Journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

#### Subscription Rates.

Ten shillings a year in advance, post free to any part of the world, including a copy of *The Chemists' and Druggists' Diary* next published. Subscriptions may begin any month. Single copy, 6d.; Summer or Winter Number, 1s. *Diary*, 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12-60 francs, franco.

Jährlicher Abonnementpreis: die Zeitung einmal wöchentlich, und des Notizkalender einmal im Jahre, 10 Mark, postfrei.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año, 12-60 pesetas, franco.

\*Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

**Head Office: 42 CANNON STREET, LONDON, E.C.**

Telegrams: "Chemicus London." Telephone 852 Bank (two lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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#### TWO AND A HALF MILLIONS.

This represents, in pounds sterling, the increase in the export of chemicals, drugs, etc., from Great Britain for the nine months ended September 30 as compared with the corresponding period in 1909. The exact figures are:

1909	1910	1911
£12,314,652	£13,632,688	£14,857,191

The export of medicines alone is also steadily increasing, as the latest official returns show:

1909	1910	1911
£1,247,643	£1,366,023	£1,431,941

There can be no question but that

#### THE CHEMISTS' AND DRUGGISTS' DIARY

contributes to that increase, for it sells chemicals, drugs, medicinal preparations, toilet articles, etc., all the year round. If you have not already secured space in the advertisement section you are neglecting an opportunity of sharing in the nation's increasing prosperity. Write without further delay to the Publisher, 42 Cannon Street, London, E.C.

## Summary of this Issue.

The more notable items only are dealt with.

#### Articles and Communications.

Some practical formulæ are printed on p. 53.

Sandalwood-oil capsules are being adulterated in some quarters. See the note on p. 50.

We show on p. 50 that the employment of unofficial works as standards for drugs is inadvisable.

Duo-decyl aldehyde is employed in artificial violet perfume to improve the bouquet of ionone (p. 34).

There are several skin-troubles that result from contact with certain plants. "Xrayser II." refers to some of these on p. 47.

"Xrayser II." has an interesting note regarding the early use of rhubarb-pills, but shows that the pills referred to are not those in common use to-day (p. 47).

The correspondence regarding lin. terebinthinæ is continued, two correspondents defending the addition of dilute hydrochloric acid to the finished liniment (p. 62).

The first annual report on the working of the Straits Settlement Government Monopolies Department has been issued, and we have collected some interesting items from it (p. 49).

The work that is before the Houses of Parliament in the Autumn Session is outlined on p. 48. The National Insurance Bill is first in the legislative programme, but there are other items of great interest to the drug-trade.

#### News of the Week.

The awards to the British exhibitors at the Turin Exhibition are printed on p. 51.

A laboratory of instruction is to be built at the Palace of Radium in Paris (p. 37).

An Indian law-suit regarding an imitation of Squibb's ague-specific is reported on p. 38.

The Order in Council regarding the sale of poisonous substances does not apply to Ireland (p. 50).

Mr. Charles Kerr, Dundee, died suddenly on October 17. We print his portrait and biography on p. 43.

We give (on p. 53) a portrait and biography of Alderman H. H. Pollard, of Ryde, who has retired from business.

Passing-off cases referring to "Lux" and "Monkey Brand" soaps are before the High Court in London (p. 39).

The latest news regarding the National Insurance Bill are given on p. 44, and Mr. Glyn-Jones's address on the same subject is printed on p. 56.

A new edition of "Pharmaceutical Formulas" is to be published next week. We note some of the alterations that have been made in the book on p. 49.

The grocers of Leeds and Halifax have been discussing the new Order in Council regarding mineral acids, and are not very well posted in the matter (p. 35).

We report the meetings of many chemists' Associations on pp. 54 to 57. Among these is an abstract of a lecture on synthetic remedies (p. 55) and changes in pharmacy (p. 56).

A limited company who have displayed the Royal Arms on their premises for thirty-five years without a Royal Warrant of Appointment have been stopped by injunction (p. 39).

Sir Almeric FitzRoy, Clerk of the Privy Council, has written to the Midwives Board a stinging reply regarding the ethical pretensions of the members of the Enfield Medico-Ethical Society (p. 35).

Whether a dispenser should diminish the dose of laudanum which he believes to be dangerous in a prescription for an infant is a point the Irish Local Government Board have had before them at an inquiry in Dublin (p. 36).

#### Trade and Market Matters.

Menthol has gone up in price 20 per cent. since last week, and is likely to go higher. Sugar of milk is also at famine prices, 97s. 6d. per cwt. having been paid. America is at the back of the rises in these articles. An unusually good cinchona sale took place in London this week, also drug sales on Thursday, when cardamoms were firmer, and in some cases higher. ipecacuanha (a scarce article) went up 6d., rhubarb was in poor supply and dear, and some other drugs showed an upward tendency. Scarcity of supplies is the general complaint, and troubles in the Near and Far East affect shipments and prices (pp. 58 to 61).

## CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus :  
"Corner for Students, 'The Chemist and Druggist,' 42 Cannon  
Street, London, E.C."

### QUALITATIVE ANALYSIS.

A Mixture of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopoeia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, October 24, and the samples will be posted on the following day.

Students' reports will be received up to Saturday, November 4. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the opening exercise in

### THE ANALYTICAL TOURNAMENT

for the current winter session, which was alluded to in our issue of September 23. We offer special certificates and prizes for the best series of reports submitted on the exercises to be set for November 1911 to April 1912, inclusive. The awards will be made to the students who obtain the highest aggregates of marks for their reports upon the whole six exercises, and will comprise :

*First Prize.*—Certificate of honour and books to the value of two guineas.

*Second Prize.*—Certificate of honour and books to the value of one guinea.

*Third Prize.*—Certificate of honour and books to the value of half a guinea.

The competition is open to all pharmaceutical students who have not passed the Major examination in Great Britain or the Licence examination in Ireland. Former tournament prize-winners are disqualified from again taking a tournament prize, unless it be a superior one to that previously gained. Besides the tournament prizes, the usual monthly awards will be made to junior students, viz. :

*First Prize.*—Books to the value of 10s. or thereabouts.

*Second Prize.*—Books to the value of 5s. or thereabouts.

These monthly prizes will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact *must be attested on their reports.*

Students may save themselves the trouble of sending in an application monthly by forwarding at the present time six stamped and addressed envelopes, which will be utilised month by month. Each envelope should have the words "Students' Corner" written in the top left-hand corner.

Students who adopt a *nom de plume* must adhere to it throughout the tournament.

**Artificial Violet Perfume.**—Of recent years there has been a growing tendency to recognise the value of the higher aldehydes of the acetic series in synthetic perfumery, and several of the best known artificial orange and rose perfumes contain traces of these aldehydes. Nonyl aldehyde finds employment in the manufacture of perfumes of the following type: Cyclamen, muguet, and lilac; octyl aldehyde in jasmín, jonquil, hyacinth, and narcissus; and nonyl aldehyde in artificial rose. Quite recently, however, the leading French perfumers have turned their attention to duo-decyl aldehyde, and it is no exaggeration to say that its use is to-day almost necessary if the finest artificial violet perfumes are to result. According to the most recent reports from French perfumers, the addition of from 5 to 10 per cent. of this aldehyde to any of the bodies of the ionone type produces a bouquet infinitely superior to that of simple ionone, and quite *sui generis*.

## ENGLISH AND WELSH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

### Brevities.

Oswaldtwistle chemists and druggists have now to pay 1s. 3d. extra per quarter for their water-supply, surgeries 2s. extra, and photographers 1s. Hard on the doctors.

A presentation of silver-plate is to be made to Mr. E. J. Hunt, of Messrs. Wm. Hunt & Son, chemical-manufacturers, in recognition of his services as Mayor of Wednesday.

The Bournemouth Bench have transferred the off wine-licence attached to the business of Mr. J. Lawrence Robinson, chemist and druggist, 14A Christchurch Road, Boscombe, to Mr. W. G. Mitchell.

Mr. R. Goodwin Mumbray, Ph.C., Richmond, a well-known veteran, is circulating a printed statement regarding the sale of arsenic and the danger of allowing the poison to be sold by unqualified persons.

In a lecture given at the City of London School last week, Dr. F. M. Sandwith said that he attached the greatest faith as a fly-killer to a solution of two teaspoonsful of formaldehyde in a pint of water.

The new Justices of the Peace for Kent include Mr. G. Foster Clark, Maidstone; Sir Robert Laidlaw, Hayes; Mr. R. Ludwig Mond, M.A., Combe Bank; and Mr. J. Edgar, of Edgar's Manufacturing Co., Ltd., Deal.

The fire which occurred late on Saturday night (October 14) at the premises of the Timothy White Co., Ltd., Queen Street, Portsmouth, was caused by a blind falling on a gas-flame. Some stationery and other stock was destroyed.

The first of the lectures for 1911-12 arranged by the Council of the Institute of Chemistry will be on "Cement," by Mr. Bertram Blount, F.I.C., at the Lecture Theatre, King's College, Strand, London, W.C., on October 26.

Mr. John William Dare, secretary to Wm. Wood & Son (Maresfield), Ltd., nurserymen and seedsmen, Woodlands Nursery, Maresfield (Sussex), has applied for a licence to sell poisons under the provisions of the Poisons and Pharmacy Act.

The London County Council is allowing Mr. A. Oldcorn, chemist, to retain for a further period the wood and glass showcases in front of 1 Piccadilly Circus, London, W. Consent has also been given by the Council to the erection of an addition to 99 Streatham High Road, on the application of Boots Pure Drug Co., Ltd.

A new chancel screen, pulpit, and east window in the church of St. Augustine's, New Basford, were on October 14 dedicated by the Bishop of Derby. The handsome window consists of five lights; the fourth has been given by Mr. and Mrs. John Murden in memory of T. A. Newball and his grandsons, J. N. Murden and T. E. Murden; while the fifth, the gift of Mr. Benjamin Deaville, commemorates Thomas Mason. Mr. Deaville is one of the churchwardens, and is well known to the drug-trade from his connection with Messrs. Newball & Mason, Nottingham.

### Public Analysts' Reports.

Four samples of drugs examined for the Borough of Southwark during the past quarter were all proved to be genuine.

In the Borough of Lewisham during the past year seven samples of arrowroot and one informal sample of compound tincture of bark were examined. All were genuine.

### Contracts.

Daventry Guardians.—Mr. A. H. Harrison, for disinfectants.

Orsett Guardians.—Mr. J. C. Mitchell, Ph.C., Grays, for disinfectants.

Aspull Urban Council.—W. & F. Walkden & Co., Ltd., for carbolic disinfectant.

Faversham Rural District Council.—Mr. T. J. Thomas, Faversham, appointed chemist for six months.

Hemsworth (Yorks) Rural District Council.—Mr. G. Hodgson, Hemsworth, for drugs and disinfectants.

Wakefield City Council.—Mr. J. Judge, chemist, Wakefield, for the supply of drugs, disinfectants, etc., to the hospital.

Admiralty Contracts.—Brunner, Mond & Co., Ltd., Northwich; Chance & Hunt, Ltd., Oldbury; and C. Tennant & Sons, Ltd., for chemicals.

Folkestone Town Council has accepted the tender of Mr. F. C. Jones, of 104 Cheriton Road, at 26l. 10s. for a twelve months' supply of drugs and medicines to the sanatorium.

War Office.—Aitchison & Co., Peckham, S.E., and Ross, Ltd., Clapham Common, S.W., for prismatic binoculars. Crampton & Ward, Ltd., Castle Donington, for medical companions, etc.

Maidstone.—At the meeting of the Town Council on October 11, a protest was made against the system of private tendering adopted this year. In reply, it was said that last year only three tenders, including two from Maidstone tradesmen, were received, after advertising locally and in London at a cost of 1l. 7s. The contract was awarded to Mr. F. J. Oliver, chemist and druggist, Maidstone, whose tender was 221l. 14s. 4d.

#### "Ethical Pretensions."

At the meeting of the Central Midwives Board last week a question of medical ethics was raised by some correspondence with a certified midwife working at Enfield. The Enfield Medico-Ethical Society had passed a resolution to the effect that if a certified midwife practising in the district should call in a medical man to a case she must guarantee a fee of not less than one and a half guinea, and leave the case entirely to the doctor. The midwife complained that she was working for her living among a poor population scarcely able to pay her own fee of 10s. 6d., and asked whether the woman was to be left, possibly to die, in spite of the fact that she had complied with her rules in sending for medical help. The Central Midwives Board laid the matter before the Privy Council. Sir Almeric FitzRoy, Clerk to the Privy Council, replying to the Board, observes that "the medical interests of the society in question appear to be more prominent than its ethical pretensions," and in his opinion "the correspondence discloses a most improper imposition on the midwife, which it is her duty to ignore." The Board decided to inform the midwife that it had no power to deal with the resolution of the Enfield Medico-Ethical Society, adding, "should anything untoward happen as the result of the refusal of medical assistance the responsibility will not rest with you."

#### Oldham Drug-store Keepers.

The monthly meeting of the Oldham and District Branch of the Incorporated Society of Pharmacy and Drug Store Proprietors of Great Britain, Ltd., was held on October 3, Mr. Filton presiding. The Chairman referred to the satisfactory progress of the branch and to matters of common interest to the members, especially the Shops Bill and National Insurance Bill. As to these Bills, he said that "any measure which attempts to circumscribe the legitimate interests of a particular trade, and compels the public to traverse those channels to which they are averse, savours not only of monopoly, but is illiberal, and contrary to the spirit of the age in which we live." The Secretary (Mr. James Parkinson) read a letter from the President of the Association, suggesting the line of action which the branch should take. After some discussion it was unanimously agreed to follow out the course suggested. Several other matters were dealt with, and a smoking-concert was arranged for November 7.

#### "A Little Knowledge," etc.

At a meeting of the Leeds Grocers' Association, held last week, mention was made of the new regulation relating to the sale of mineral acids. Mr. E. Harper observed that the Pharmaceutical Society was trying to take everything it could out of the hands of the grocer. In his opinion they had not to thank Coroners of the different districts for this new regulation, but the Pharmaceutical Society, and very strong action should be taken with regard to such matters. The grocery-trade had been the butt of the Pharmaceutical Society, and they should oppose laws

which were "by a society, and not Parliamentary."—Mr. J. W. Jessop held that on grounds of mere common-sense they could not oppose the labelling required, but he thought they could hardly agree with the question of special bottles.—Mr. G. R. Woodcock pointed out that the regulation was an Order in Council, and not an order of the Pharmaceutical Society. Personally he did not see that the use of special bottles would be to the disadvantage of the trade. Neither did he see the possibility of decreased profits through the change. After a little further discussion the matter dropped.—The Halifax grocers also discussed the question last week. Mr. L. Tinker remarked that the new order was doubtless the result of chemists having a member of Parliament to represent their interests. The time would come when grocers would have to be represented in Parliament in the same way if their interests were to be safeguarded.

#### From Various Courts.

At New Mills, Derbyshire, on October 11, Samuel Hallam, of New Mills, was fined 1l. for selling sweet spirit of nitre not up to standard.

At Chester Quarter Sessions, George Rowland Williams, described as a chemist, was found guilty of obtaining 3s. by false pretences, and was sentenced to five years' penal servitude.

At the Flintshire Quarter Sessions last week, Samuel Spiby, *alias* Thomas Frith (33), described as a druggist, was sentenced to twelve months' imprisonment with hard labour for stealing, at Rhyl, a bicycle, value 5l.

At the Central Criminal Court, London, on October 14, Amelia Jane Horne (25) was found guilty of the manslaughter of her infant son by giving it laudanum. The woman was recommended to mercy, and sentenced to five days' imprisonment.

Mr. T. E. Stephens was again charged at Bow Street Police Court, London, W.C., on October 18, with libelling his son, Mr. T. Hubert Stephens, wholesale druggist. He was committed for trial at the Central Criminal Court (*C. & D.*, October 14, index folio 565).

At the Central Criminal Court, London, on October 14, William Grant Hendrie (60) consented to be bound over in the sum of 50l. not to repeat libels published against Mr. A. M. Upton and the Society of Apothecaries (*C. & D.*, October 14, index folio 565).

At Doncaster on October 11, a young girl named Ethel Burdin, was bound over for six months for the theft of goods and 1l. in money from the house of Mr. Donald M. Sinclair, chemist and druggist, at 1 Market Road, Mexborough, where she had been employed as a servant.

At Ammanford on October 16, a Swansea traveller named Edwin John Saph was charged with feloniously forging and uttering cheques, including one for 2l. 2s. to Mr. J. W. Evans, chemist and druggist, of Garnant. The Bench committed accused for trial at the Assizes.

James Hyde, who was last week committed for trial at Darlington on a charge of breaking a number of plate-glass windows, including one at the establishment of Mr. H. Masterman, Ph.C., Northgate, was at the Quarter Sessions on October 16 fined 5l., or fourteen days' hard labour.

At the North London Police Court on October 16, James Symon (41), described as a chemist, of Dudley Place, Paddington, Gertrude Brett (38), of the same address, and Barend Machiel Winkel (39), of King's Gardens, West Hampstead, were remanded on a charge of being concerned together in performing and causing to be performed an illegal operation at Fulford Mansions, Upper Holloway, on Beatrice Gregg.

At the Central Criminal Court on October 13, Edward Brett (22) was sentenced to twenty-two months' imprisonment with hard labour for forging and uttering a cheque for 60l. 9s. 6d. with intent to defraud. The cheque was originally issued for 6l. 9s. 6d. by the Society of Apothecaries in favour of Messrs. Carnegie Bros., chemical merchants (*C. & D.*, September 23, index folio 467). The crossing had been erased by chemical means.

At Portsmouth on October 14, Albert Goldring (14), errand-boy, was charged with stealing perfume from the Timothy White Co., Commercial Road. About

twenty bottles, retailing at 2s. 9d. each, had been missed, which the boy stated he had sold at 2d. each to an ice-cream vendor named Harry Land. The latter was also charged with receiving, and both were remanded, the youth being allowed bail. When the case was resumed on October 17, Land stated that he did not know the scent was stolen, and he was discharged with a caution. The lad Goldring was also discharged with a severe reprimand, the prosecutors not pressing the case. At the same Court, Geo. Hopwood was also remanded on a charge of breaking into and stealing various goods from the company's premises at Commercial Road, Landport.

## IRISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

### Pharmaceutical Society of Ireland.

The following are the results of the recent examinations held in Dublin:

**PHARMACEUTICAL LICENCE.**—The following passed: Dorothea Mary Kerrigan, Castletown Geoghegan; David James Pinkerton, Lisburn; James Frazer Browne, Belfast; Richard Barrett Woulfe, Abbeyfeale; Herbert Douglas Heazley, Belfast. Eleven candidates were rejected.

**REGISTERED DRUGGIST.**—The following passed: John Leo Farrell, Dublin; James Johnston, Belfast. Three candidates were rejected.

**PHARMACEUTICAL ASSISTANT.**—James Joseph Hamill, Belfast, passed.

### Ulster Chemists' Assistants' Association.

The Hon. Secretary (Mr. H. F. Moore) informs us that the Association is in possession of a set of materia-medica specimens. The bottles, which number 140, were presented by the York Glass Co., while The British Drug Houses undertook to fill them with specimens. These are now available for students' use at the rooms of the Association, College Square, Belfast.

### Brevities

Mr. George D. Beggs, Ph.C., Dalkey, has been co-opted a member of the Dalkey Urban Council.

Dr. J. H. Hutchinson, of Messrs. James Black & Co., druggist, Shankill Road, Belfast, has opened a surgery on the Shankill Road, Belfast.

The Medical Officer of the Bridgetown Dispensary District of the Wexford Guardians has been asked to explain why he sent to the analyst a sample of ol. terebinthinae labelled lin. terebinthinae. He replies that it was an obvious mistake.

At Belfast Police Court on October 16, James W. Keys and Geo. McRobbie were charged with the larceny of a quantity of bottles of wine, the property of the Belfast branch of the Shoemiths' Medicated Wine Co., also several boxes of pills and some books. The accused were committed for trial at the Quarter Sessions.

A Local Government Board inquiry has been held in the South Dublin Union Boardroom to examine cross-charges made between Dr. McKenna, Ph.C., dispenser, and Dr. Denham, medical officer of the Donnybrook Dispensary. Dr. McKenna reduced on his own responsibility the dose of laudanum (2½ minims) which Dr. Denham had prescribed for a one-year-old infant, and the prescriber objected very strongly to this. Evidence was brought to show on the one side that the dose was excessive, and on the other side that the doctor was the only proper judge of the dose. Dr. McKenna was alleged to have refused to supply a dispensary-patient with ointment and lotion, but Dr. McKenna was able to show that the ointment could not be supplied, as the stock of drugs had not arrived from the contractors. The decision of the Inspector was reserved.

The imports of drugs and chemicals into the port of Buenos Ayres during 1910 amounted in value to 2,457,981l., or 417,302l. more than in 1909; imports of colours and paints were 461,008l., or 61,587l. more.

## SCOTTISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

### Aberdeen and the North.

Cod-liver oil is being retailed in Aberdeen in pint (12½-oz.) bottles at 8½d., 10½d., 1s., and 1s. 2d. Norwegian oil is offered wholesale as low as 4s. 3d. per gal.

The business carried on by Mr. A. W. Berry, chemist and druggist, at 1 Rosemount Viaduct, Aberdeen, has been sold to Mr. W. Pennie, chemist, formerly in business in Peterhead.

Andrew Wales Berry, chemist and druggist, 1 Rosemount Viaduct, Aberdeen, has granted a trust deed on behalf of his creditors in favour of Mr. W. Edmund Bell, solicitor, 81 Union Street, Aberdeen.

At a meeting of the Governors of Robert Gordon's Technical College, Aberdeen, last week, Principal Stewart reported that, pending the reconstruction of the east wing of the College, arrangements had been made for the use of the chemical laboratory at the Training Centre for the pupils of the Intermediate Department on the same conditions as last session. On the transference of the School of Pharmacy to the temporary buildings the present pharmaceutical laboratory is to be made available for the Post-Intermediate pupils. The Engineering and Chemistry Committee reported in regard to the prospectus of the School of Pharmacy, which had been incorporated in the proof prospectus approved of by the committee in June last, that the department had approved of its issue as a separate publication, and that this had accordingly been done. On the suggestion of Mr. W. F. Hay, it was agreed that the prospectus of the evening classes of the School of Pharmacy should be incorporated in future issues. Principal Stewart, in his report to the Scottish Education Department on the work of the School for the past session, speaks of the excellent work done by the pharmaceutical department.

### Edinburgh.

The business of Messrs. G. H. Laird & Sons, chemists, 40 Queensferry Street, Edinburgh, is for sale.

Several large firms are this week advertising dispensing in the local Press, special reference being made to the fact that prescriptions are under the charge of fully qualified chemists and druggists.

Mr. Henry S. Wellcome, of London, has announced his intention of presenting annually a gold and a silver medal, accompanied in each case by a money prize, for competition in the history of medicine class at Edinburgh University.

At the High Constables' Tercentenary Service, held on Sunday last in St. Giles' Cathedral, several chemists who are members of the body were present, including Captain Victor Wright and Messrs. John Henderson and W. L. Edward.

The Prize Committee of the Edinburgh Association of Science and Arts have awarded the bronze medal of the Association to Dr. W. Inglis Clark (Duncan, Flockhart & Co.) for his paper on "Colour Photography," illustrated by lantern-slides, read on November 7, 1910.

It should be better known than it is that, when a constable brings an accident case of any kind to a chemist for treatment, the police authorities thereby make themselves liable for payment of the bill. The other evening a local pharmacist had to go outside to poison an injured dog, and the policeman who requested him to do so told him to send the account to headquarters in the event of the owner not being discovered.

### Glasgow and the West.

Mr. Robert Dickson, chemist, New City Road, Glasgow, and Mr. A. Brownlie, chemist, Dumbarton, have been successful at the recent examination for D.B.O.A.

Mr. T. S. Barrie, Ph.C., F.C.S., has obtained the degrees M.B., Ch.B. Glasgow, with honours. Mr. Hugh Paterson, chemist and druggist, Wishaw, has also taken the same degrees.

Mr. J. Foster, chemist, Charing Cross, has a big window display of Exhibition Soap. The wrappers and boxes are

ornamented with a representation of the entrance to Glasgow Exhibition in Kelvingrove.

Mr. Baillie, chemist and druggist, has been appointed manager of the Port Glasgow branch of McNaught Bros., chemists, in room of Miss Crooke, chemist, who has gone to England.

Dr. P. N. Grant, 300 Bath Street, who is well known to West End chemists, is suing the Glasgow Corporation for 7,000*l.* damages for personal injuries alleged to have been caused by reckless driving of a tramcar, which collided with a four-in-hand. The case is at present in the Court of Session.

#### Business Changes.

Mr. W. S. Glass, Ph.C., Edinburgh, is opening a branch pharmacy at Corstorphine.

Mr. T. B. Macfarlane, Wishaw, has disposed of his business to Mr. J. McMinn.

Mr. S. C. Berry has disposed of his business in Paisley to Mr. Angus Brown, Wishaw.

The business of Mr. Henderson at Kirn has been purchased by Mr. Morrison, chemist.

## FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

**OBITUARY.**—The death is announced at the advanced age of ninety-six of M. Henri Charles Lutz, who for many years held the important post of head pharmacist of the St. Louis Hospital, Paris. Up to the last he continued to interest himself in the progress of science, and was gifted with a prodigious memory. At the interment in the Père Lachaise Cemetery the mourners included a delegation of the Paris Faculty of Medicine and several head pharmacists of the Paris hospitals.

**THE PALACE OF RADIUM.**—By desire of Mme. Curie, a laboratory for instruction is to be annexed to the Palace of Radium, now being constructed in the Rue Saint Jacques, Paris. This new laboratory will entail an extra outlay of about 1,200*l.* and will accommodate forty pupils. It is expected that the Paris University will advance the necessary funds. This body has already contributed 11,000*l.*, while the Pasteur Institute has supplied 16,000*l.* The original intention was only to provide the new home of radium with a research laboratory.

**ARAB REMEDIES.**—In her volume on "Tunis la Blanche," Myriam Harry, the popular lady novelist, refers to the veneration of the Mohammedan population for the written word of the Koran. The "moueddeb," or schoolmaster, writes a verse or phrase on a wooden tablet, and each pupil traces the same until it is learned by heart. The word is then washed off the tablet, and the water which has thus touched the sacred text becomes sanctified. It is poured into a jar, and at nightfall is carried to the cemetery to be buried in consecrated ground. The water stagnates there for months, and as it is supposed to have healing virtues, children drink it for the slightest ailment, and enteric fevers are the consequence.

**SALVARSAN.**—A discussion took place before the Academy of Medicine last week on salvarsan. It began by the recital of a fresh case at the St. Louis Hospital, Paris, where the remedy had proved fatal. Dr. Hallopeau, who brought the case forward, observing that hectine was more effectual in curing syphilis and was free from danger. Dr. Balzer contended that some of the deaths from salvarsan are due to the idiosyncrasy of the patient, and said that the tendency now is to administer the remedy in smaller doses. Professor Pierre Marie urged the importance of employing sterilised water for preparing salvarsan injection. At the same meeting Professor Jonnesco of Bucharest demonstrated his method of spinal anaesthesia.

**EMPTY MEDICINE-BOTTLES.**—It is curious what grave and thoughtful subjects—history, biography, literature, science, hygiene—are often treated in the first column of French dailies, of which the remaining pages contain very different matters. In the "Journal," one of the most widely circulated of the Parisian morning papers, M. André Lefèvre has devoted nearly two columns to the question "What to do with empty medicine-bottles." After a detailed study of the vitality of microbes and the con-

tamination of glassware, he concluded, "So, to resume, keep your bottles if you are sure, sterilise them yourselves in case of doubt, if you are conscientious, throw them away if you are not." But he is fully convinced that pharmacists should not take back or allow for empty bottles, and that the public should not expect them to do so.

**THE SEQUESTERED PHARMACIST.**—The unfortunate adventures of M. Brunet, the Paris pharmacist who was confined in a lunatic asylum for thirty-six hours some time ago at the instance of his wife and two assistants, was before the Paris Courts again last week. The occasion was the appeal of Mme. Brunet and the assistants against a judgment which sentenced them to four months' imprisonment and a fine of 8*l.* each, the imprisonment being rescinded under the First Offenders Act. After going into the facts of the case, the Court rejected the appeal and confirmed the previous judgment. The male nurses who were engaged to carry the pharmacist away were sentenced to fifteen days' imprisonment each, this being also rescinded under the above-mentioned Act, but the Society which employed them was condemned to pay 80*l.* indemnity.

## SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Association of Chemists in British South Africa, as well as to other chemists in business there.

#### The Union.

**AUGUST DRUG IMPORTS.**—The total imports of drugs, chemicals, and apothecaries' wares into the Union during August amounted in value to 78,188*l.*, against 70,221*l.* in August 1910; for the eight months the total is 600,231*l.*, against 531,501*l.* in 1910. Some of the items in August were: Medicines, value 9,278*l.* (1910, 10,218*l.*); apothecaries' wares of all kinds, 9,543*l.* (1910, 9,506*l.*); sodium cyanide, 1,246,609 lb. (1910, 1,007,062 lb.). For the expired portion of the year the imports of medicinal preparations amounted to 76,481*l.* (1910, 79,141*l.*); apothecaries' wares, 85,885*l.* (1910, 69,024*l.*); sodium cyanide, 8,731,056 lb. (1910, 7,478,956 lb.); potassium cyanide, 101,040 lb. (1910, 235,617 lb.); all other drugs and chemicals, 79,489*l.* (1910, 63,891*l.*). The imports of glycerin for manufactures during the eight months amounted to 10,168,748 lb., or 2,058,860 lb. more than the corresponding period of 1910.

#### Cape Province.

**MEDICAL AND PHARMACY ACT.**—Hermanus Jacobus Steyn, a Dutchman, was remanded by the Kimberley Magistrate on September 26, on a charge of contravening the Medical and Pharmacy Act by practising as a medical man without licence.

**DEAR SUGAR** is the subject of lengthy articles in the daily Press, and prices are expected to advance  $\frac{1}{4}$ *d.* per lb. all round. Natal planters are likely to benefit to the extent of half a million sterling this season, and the high rates are likely to last until at least the end of the year.

**CHEMISTS' ATHLETIC CLUB.**—The return match of lawn-tennis between the Johannesburg and Pretoria teams was played on the courts adjoining the Masonic Hotel, Pretoria, on September 12, when the home men were defeated by eight games out of a total of forty-four. Messrs. Marshall, Mills, Rankin, Howarth, Veitch, Holzschneider, and the Brothers Solomon represented Johannesburg; while Messrs. Braes, Titley, Strachan, Parsons, Heald, Jenkins, Archer, and Elliot played for Pretoria. The visitors, including several non-players, were entertained to lunch and tea and also taken a tour of the town.

**PERSONAL.**—Mr. W. E. Rogers, of Messrs. Walker, Rogers, Ltd., Johannesburg, foreign agents, was in Cape Town when the mail left. He was en route for the Transvaal via coast ports.—Mr. Miller, of Messrs. Smart & Copley, wholesale chemists, Bulawayo, passed Cape Town for the north on September 26, on his journey from Europe to Rhodesia. He was accompanied by Mrs. Miller.—Sir A. E. Wright arrived from England at Cape Town on September 27. He is to make an investigation into the great prevalence of pneumonia among the natives employed on the Rand goldfields.

## AUSTRALASIAN NEWS.

"The Chemist and Druggist" is regularly supplied by order to all the members of nine Societies of Chemists in Australia and New Zealand, as well as to other Chemists in business there.

### New South Wales.

SHOP-ASSISTANTS.—The Shop-assistants' Country Award was gazetted on September 6 and is in operation. It defines "shop-assistant" as any person who is engaged as an employé by a shopkeeper in any capacity relative to the retail, reception, sale, or delivery of any of the following goods, including, among other things, photographic goods, rubber goods, patent medicines, and proprietary medicines. The scale of wages is: For managers, 3*l.* 10*s.*; branch or departmental managers, 3*l.*; other senior males above the age of twenty-two, 2*l.* 10*s.* Juniors get wages from 7*s.* 6*d.* at fourteen, at sixteen 12*s.* 6*d.*, at seventeen 17*s.* 6*d.*, at eighteen 1*l.* 2*s.* 6*d.*, and so on. Where dwelling accommodation is provided by an employer no more than 10*s.* a week is to be charged therefor. Whether the award will apply to pharmacists is uncertain.

### New Zealand.

DR. JOHN ENGLISH, Professor of Chemistry at the Reading University College, England, has been appointed Professor of Chemistry at the Otago University. Professor English is a native of Christchurch, N.Z.

MR. J. A. COLTART, who has been associated with Savory & Moore, Ltd., Bond Street, London, Southall Bros. & Barclay, Ltd., Birmingham, and the Oxford Drug Co., has purchased the business of Mr. A. V. B. Bishop, the Fitzgerald Pharmacy, Christchurch. He has relinquished the position of manager of the United Friendly Societies' Dispensary.

### Queensland.

FORMULA ON LABEL.—The Health Act Amendment Bill, which is before the Queensland Legislative Assembly, contained a provision requiring the declaration of the ingredients of proprietary articles. The Pharmaceutical Society took active steps to point out the injustice of such a proposal, and as a result the clause referred to has been withdrawn. The Bill gives the Government power to deal with mosquitos and vermin, the sale of disinfectants, and the declaration of noxious drugs.

### Victoria.

MR. D. McALPINE, who has been for twenty-five years lecturer in botany at the Melbourne College of Pharmacy, has been appointed by the Federal and State Governments to undertake an investigation of the bitter pit in apples and pears. Mr. McAlpine has resigned his position at the College, and Mr. Sidney Plowman has undertaken to act temporarily as lecturer in botany.

LYSOL DEATHS.—The Registrar of the Pharmacy Board of Victoria has been in communication with the Chairman of the Victorian Board of Public Health regarding the number of deaths from lysol. During the past twelve months fifty-six deaths have been reported, and there have been six in the course of a few weeks. The Registrar suggested that the use for suicide might be reduced if the sale were restricted to the original 3-oz. bottle in which the poison is supplied by manufacturers.

S.V.M. AS BEVERAGE.—An appeal against the fine of 15*l.* inflicted on a chemist's wife for selling methylated spirit as a beverage (*C. & D.*, September 23, index folio 468) was heard by Judge Gurner at the Melbourne General Sessions on August 29 and 30. The appeal was dismissed and the conviction confirmed. All through the Commonwealth and in New Zealand the Licensing Acts give pharmacists the right to sell intoxicating liquors for medicinal purposes. No restriction has been hitherto put upon the sale of methylated spirit, and until lately no need for any restriction has arisen.

DENTAL PROSECUTIONS.—On August 23 Oswald John Strutt, Sydney Road, Moreland, was fined 1*l.*, with three guineas costs, for an offence against the Dentists Act. He was a "recorded" dentist, and exposed at his place of business the words "Moreland Dentistry," "Painless

Dentistry," "Gold-filling and all Operations Carried Out Painlessly." It was contended for the defence that those practitioners recorded by the Dental Board were recorded for the practice of dentistry; but the Police Magistrate held that the Act gave those recorded the same rights and privileges that they had before, but no others. Up to the time of being recorded it was clear that the defendant had no right to put up the words he now used or to advertise himself.

## INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

PERSONAL.—Mr. C. B. Robinson, of Messrs. Thomson & Taylor, chemists, Bombay, returned to business on September 22.—Mr. J. H. Holden (Burroughs Wellcome & Co.) passed through Bombay *en route* for Delhi on September 22. The firm are to have a stall while the Durbar is proceeding.—Mr. W. H. Lang (representing Southall Bros. & Barclay, Ltd., Horlick's, J. G. Ingram & Son, and Arnold & Son) arrived in Bombay on September 22. Letters may be addressed *Poste Restante*, Bombay.

CEYLON OPIUM ORDINANCE.—The "Times of Ceylon" (September 22) states that the sub-committee which was appointed to consider the Opium Ordinance Amendment Bill recommend the enactment of the Bill with certain amendments. They have amended the clause allowing provincial surgeons to exempt prescriptions from the restrictions of the principal Ordinance by extending the same power to medical officers of the first grade of the Medical Department. A new clause has been added suspending the coming into operation of the Ordinance, so as to give time for rules to be prepared under Clause 5.

BIG COCAINE-SEIZURE AT MAZAGON.—On September 28, three Mahomedans were brought before the Magistrate at Bombay in connection with a charge of possessing and attempting to transport 42 oz. of cocaine, valued at Rs. 2,000. The evidence was to the effect that the defendants had been watched at a railway station by an Excise inspector, who knew one of them to be a dealer in cocaine, and ultimately the officer had the kit of one of the defendants examined by Excise officers, who cut open a pillow, in which they found twelve packets of cocaine. The Magistrate found two of the accused guilty, and imposed a fine of Rs. 200 upon each, with the alternative of three months' imprisonment.

SQUIBB'S AGUE-SPECIFIC.—At Bombay on September 21, before Mr. Justice Hayward, Mr. B. S. Madon, proprietor of the firm of Madon, Sons & Co., chemists and druggists, Abdul Rehman Street, Bombay, and owner of "Squibb's Ague-specific," took action against Mr. F. R. Singara, trading as Bright Brothers, Grant Road, Bombay, for infringement of his trade-mark and proprietary rights of "Squibb's Ague-specific" by the sale of "Quick's Ague-specific." The case attracted considerable local attention, and important counsel were engaged on each side. Among the witnesses for the plaintiff were Mr. James Welch, of Messrs. Thomson & Taylor, and Mr. C. E. Pinckney, of the Army and Navy Co-operative Society. It appeared that Squibb's ague-specific is well known throughout India, Cabul, and other parts of the Asiatic Continent, as well as in Africa, and that the defendant's "Specific" was got up in bottles and card-cases resembling "Squibb's." Mr. Justice Hayward found for the plaintiff, with costs. In the course of his judgment he said:

The plaintiff was the manufacturer of Squibb's for twenty years past, it had become known to the public, and he had acquired a trade-mark in it. Quick's bottle and general get-up were an infringement of the trade-mark, and a colourable imitation of it, such as to deceive buyers into the belief that they were Squibb's. The relief to which the plaintiff was entitled, consequent upon these findings, was an injunction issued to the defendant restraining him (1) from using cardboard wrappers or issuing any other colourable imitation of the plaintiff's wrapper; (2) from using the word "Quick" in connection with his ague-specific, or any other colourable imitation of the word "Squibb." The defendant should deliver the cardboard cases and bottles in his possession for the effacement of the objectionable labels; he should give up labels in his possession or control for destruction.

## LEGAL REPORTS.

### TRADE LAW.

**X-ray Injuries.**—Mr. Curtis was a house-surgeon at Kidderminster Infirmary at 100*l.* a year, with board and lodging. An x-ray apparatus was obtained for use in ringworm, and as Mr. Curtis and the senior surgeon were uncertain as to the length of exposure for ringworm, Mr. Curtis volunteered to make a test on his arm. An exposure of fifteen minutes resulted in a serious burn, for which he sought compensation in the local county court under the Workmen's Compensation Act. Holding that it was no part of the duty of the applicant to expose himself to such an experiment, and that consequently the injury did not arise "out of" or "in the course of" employment, the county court judge refused to award compensation. Mr. Curtis appealed, and on October 16 the Court of Appeal (the Master of the Rolls and Lords Justices Fletcher Moulton and Farwell) held that the decision of the county court judge was right. The Master of the Rolls assumed that the applicant was a workman within the meaning of the Act, although that question did not arise upon the appeal.

**Carriage of Chemical Materials.**—In the Railway and Canal Commission Court on October 17, Mr. Justice A. T. Lawrence, the Hon. A. E. Gathorne Hardy, and Sir Jas. Woodhouse considered an application by Messrs. Chance & Hunt, Ltd., chemical-manufacturers, of Oldbury, Worcester, and Wednesbury, Staffs, against the Great Western Railway Co., the London and North Western Railway Co., the Midland Railway Co., and the North Staffordshire Railway Co. for a rebate or allowance in respect of the charges made for dealing with their traffic. The application was based upon an allegation that the railway companies had given preferential treatment to Messrs. Chance & Hunt's competitors in business, among the competitors specified being the United Alkali Co., of Swansea and Bristol, Messrs. F. W. Birk & Co., Swansea, Messrs. Vivian & Co., Swansea and Port Talbot, and Messrs. Bevan & Sons, Ltd., and Mr. S. B. Bevan, of Llanelly. Counsel for the applicants stated that they were owners of lines and sidings at their works, which communicated with the respondent companies' lines, and in the course of their business they made large purchases of lime stone, coal, iron pyrites, etc. These materials were carried over the railway companies' lines, and the applicants' case was that in the charges made for dealing with this kind of traffic preferential rates were given to their competitors, especially the United Alkali Co. They accordingly asked for a rebate. The respondents denied the allegation of unfair treatment, and urged that the charges made were as low as possible, consistent with dealing with the traffic. When the hearing was continued on October 18 evidence was given in support of the application, several documents being handed in with a view to prove that the railway companies had declined to grant rebates in respect of charges they had made for work done at the applicants' sidings. The respondents, it was urged, had persistently refused to give Messrs. Chance & Hunt any consideration in this connection. The hearing is proceeding.

### High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

#### USE OF THE ROYAL ARMS.

In the Chancery Division, before Mr. Justice Warrington, on October 17, the Royal Warrant-Holders' Association took action under Section 68 of the Trade-marks Act, 1905, to restrain Messrs. Edward Deane & Beal, Ltd., engineers, from unauthorised use of the Royal Arms, which have been displayed on the front of their premises at 1 Arthur Street East, London, for at least thirty-five years. His Lordship in the course of his judgment said there could be no doubt that the user in this case was within the prohibition of the section, but for the fact that most of the departments giving the authority impose the use of the words "by appointment," and that the great majority of the Royal Warrant Holders do use those words. The requirement made by the departments is not, however, known to the public generally, and the omission of the words do not render the user of the arms less calculated to lead to the belief that the company were authorised to use them. Moreover, many prominent firms do not use the words on their premises, and it is irrelevant that they use them on their paper or frame the warrant

in their shops. The defendants were using the Royal Arms in connection with their business in such manner as to lead to the belief that they were duly authorised to use them, and the plaintiffs were entitled to the injunction claimed, with costs.

#### NATIONAL CASH-REGISTERS.

At the Court of Appeal, before the Lord Chancellor and Lords Justices Vaughan Williams and Buckley, on October 12, Mr. W. D. Noble, chemist and druggist, Stepney, asked for leave to serve notice of appeal from a decision of the Divisional Court, notwithstanding that the time limit for setting down the appeal had expired. He said he had purchased from the National Cash Register Co., Ltd., some years ago two cash-registers on the instalment principle, the company's agent assuring him that the price would not be reduced. The machines could now be obtained direct from the company at a greatly reduced price. He defended an action brought by the company in Clerkenwell County Court to recover the balance, alleging misrepresentation. The action went against him, and on appeal the Divisional Court also decided that he was liable to pay, as they thought there was no evidence of fraud to go to a jury.

The Lord Chancellor: You say your defence has never really been considered? You allege fraud?

The Defendant: Yes, and that is why I ask for leave to appeal.

Mr. Head having been heard for the company,

The Lord Chancellor said the Court thought that justice would be done in this case if they allowed the application on the condition that 20*l.* was paid into court by the defendant within fourteen days. If the money was not paid in the motion was to stand dismissed, with costs.

#### HEAVY SOAP LITIGATION.

The hearing was commenced by Mr. Justice Joyce in the Chancery Division on Wednesday, October 18, of the first two of thirty-eight actions brought by Lever Bros., Ltd., and Benjamin Brooke & Co., Ltd., against co-operative societies in the North of England and the Midlands, to restrain an alleged substitution of other soaps for plaintiffs' "Lux" and "Monkey Brand," the defendants in these two cases being the Masbro Equitable Pioneers Society, Ltd., who denied the allegations. Mr. Astbury, K.C., Mr. Younger, K.C., and Mr. Preston appeared for the plaintiffs, and Mr. Hughes, K.C., Mr. Walter, K.C., and Mr. Radford for the defendants.

Mr. Astbury said that the parties had wisely determined that it would be only necessary—although they had not bound themselves to this course—to take six sets of actions to decide the matter. He proceeded to refer to the introduction of a new form of soap as "Lux" by Messrs. Lever a few years ago. The other soap in question was called "Monkey Brand." His Lordship, no doubt, had seen the pictures of a monkey looking at its face in a saucepan. (Laughter.)

His Lordship: I am well acquainted with that hideous advertisement. (Laughter.) But I know nothing about the stuff, and I do not want to. (Laughter.)

Mr. Astbury: I hope your lordship will never try to wash with it. (Loud laughter.)

His Lordship: A more hideous advertisement I never saw. (Laughter.)

Mr. Astbury, continuing, said that "Monkey Brand," which was for scouring metal goods, was invented and put on the market by Brooke & Co., whose business Lever Bros. purchased years ago. All the defendants in these thirty-eight actions were units of the Co-operative Wholesale Society. There were 1,200 of these retail co-operative societies in this country, and the plaintiffs had only picked out the moderate number of thirty-eight to proceed against. The complaint made was that these defendants had deliberately substituted soap manufactured by the Co-operative Wholesale Society for "Lux" and "Monkey Brand." The allegation made was that when orders were written out for groceries and among the articles ordered was a packet of "Lux" or of "Monkey Brand," the defendant societies in response to the order put up a packet of their own soap-flakes, which they called "C.W.S. Flakes," for "Lux," and a packet of their "Parrot

Brand" for "Monkey Brand." It was said that these actions were brought to intimidate the trade, but a society like the Co-operative Wholesale Society, which had the enormous turnover of 107,000,000*l.* a year, was not to be easily intimidated.

Mr. Hughes said that the defendants very much resented the allegations made against them. Everything had been done in a perfectly honest and straightforward manner, the practice being when any of the plaintiffs' goods were asked for to inform the customer that they were not stocked.

Mr. G. Burgess, of Lever Bros., said that boys were sent to various stores of the Masbro Society with orders for goods which included "Lux" and "Monkey Brand," and that they invariably brought back "C.W.S. Flakes" and "Parrot Brand." The cross-examination of the witness was reserved until after the boys' evidence is taken.

The hearing was adjourned.

### Sale of Food and Drugs Acts.

#### SWEET SPIRIT OF NITRE.

At New Mills (Derbyshire) on October 11, Samuel Hallam, Newtown, was summoned for selling sweet spirit of nitre deficient in ethyl nitrite to the extent of at least 45 per cent. Defendant said he sold the drug exactly as he got it from the manufacturers; it cost him 4*s.* 2*d.* for a 20-oz. bottle, and he retailed it at 3*d.* per oz. He added that he had sold less than a quarter of a pound in a year, and did not know that it deteriorated so rapidly. The Bench imposed an inclusive fine of 1*l.*

#### MERCURY OINTMENT.

At Tonbridge on October 17, before Mr. Powell and other Magistrates, Mr. H. R. Beckett, chemist and druggist, 3 Quarry Hill Road, Tonbridge, was summoned under Section 6 of the 1875 Act for selling 4 oz. of mercury ointment alleged to be deficient in the active ingredient to the extent of 70.2 per cent. Police-Inspector Neaves prosecuted, and Mr. C. H. Kirby defended on behalf of the Chemists' Defence Association.

The defendant pleaded not guilty, and after the purchase and analysis had been proved by witnesses, Mr. Kirby explained to the Magistrates that there are two kinds of mercury ointment: the Pharmacopœia one containing 48 per cent. of mercury, and a milder ointment containing about one-third of that percentage, the latter being the one invariably supplied to the public, unless under very special circumstances, and with which Mr. Beckett's sample closely corresponded. He quoted authorities in proof of the custom of the trade and showing that what was done in this case was for public safety. Evidence in support of this statement was given by Dr. Andrews, F.R.C.P., a member of the District Council for Tonbridge, who said it is unsafe to sell strong mercury ointment to the public without minute directions, and Mr. A. J. Gower, chemist, Tonbridge, who said he had been in the trade fifty years, and in his experience it is the universal custom to sell as mercury ointment the milder variety, one in three. The defendant also gave evidence to the same effect, adding that he honestly thought, as a woman came for the ointment, that it was wanted for killing vermin in children's heads.

The Chairman, in giving the verdict of the Bench (imposing a nominal penalty of 5*s.*, with 15*s.* 6*d.* costs), said they had no difficulty in coming to a decision on the legal aspect of the matter, although on the practical side of the question it might be otherwise. Chemists should supply B.P. goods when they are asked for under the B.P. names, and the public must be protected. His brother Magistrates had, however, specially requested him to state that no fraud or criminal intention could possibly be imputed to Mr. Beckett.

#### EMULSION OF MAGNESIA.

The Edgware Justices were on Thursday, October 12, occupied for some time on a summons against John Morrison, chemist and druggist, Golder's Green Parade, Hendon, alleging that he sold a compounded drug (emulsion of magnesia) which was not composed of ingredients set forth in the "British Pharmaceutical Codex," or in accordance with the demands of the purchaser, but contained an excess of magnesium hydroxide of about 137

parts per cent. (30.8 grains of hydroxide per ounce instead of 15 grains). Mr. R. A. Robinson, barrister-at-law, appeared for the Middlesex County Council, and Mr. Clarke Hall (instructed by Messrs. Neve, Beck & Kirby) defended.

Mr. Robinson said defendant was asked for emulsion of magnesia but supplied the messenger with a bottle of Phillips' milk of magnesia, which was twice as strong as the article demanded. No fraud was suggested, but it was urged that when an unskilled person presented a medical prescription he should be supplied with the article he wanted.

Victor Keen, the messenger who made the purchase on August 28, said defendant handed him a bottle from a shelf saying, "This is the identical thing." Nothing was said to lead him to think he had got a substitute. He paid 1*s.* for the medicine and handed it to the Food and Drugs Inspector.

John Morrison, the defendant, declared that he told Keen that he did not keep emulsion of magnesia compounded in accordance with the Codex but Phillips' milk of magnesia. Keen examined two bottles and then purchased a 1*s.* bottle.

Charles William Barnes, defendant's assistant, said he distinctly heard his employer tell Keen that he had a similar preparation recommended by doctors.

Mr. Clarke Hall asked for a dismissal, as the seller brought to the notice of the purchaser that the article sold was not the article demanded.

The Bench determined not to convict, but ordered defendant to pay the costs, 18*s.*

### County Court Cases.

#### A DISPUTE ABOUT BOTTLES.

At the Whitechapel County Court on October 13, before Judge Cluer, Messrs. Symington & Co., Edinburgh, sought to recover from Messrs. Laing & Co., manufacturing chemists, 9*l.* for coffee-essence supplied. The point in dispute was as to the kind of bottles which contained the coffee-essence, plain or embossed. The defendants wanted plain bottles, but plaintiffs supply the essence in embossed bottles only, which fact they communicated to the defendants, who put the essence in plain bottles themselves, and counterclaimed for 1*l.* His Honour said it was for the defendants to either accept or reject the goods when they were supplied. There had been an acceptance, and there would be judgment for the plaintiffs, with costs.

#### DISPUTED ORDER FOR SKETCHES.

In the City of London Court, before Mr. Assistant Registrar Tattershall, on October 17, a claim was made by Mr. R. W. Clamp, 137 Venner Road, Sydenham, against the J. D. Riedel Co., 54 Cannon Street, London, E.C., for 1*l.* 14*s.* for two black and white designs supplied. The plaintiff had replied to an advertisement for an artist and submitted sketches to the defendants, which were retained for some time, and he now sued them for the price of the sketches. The defendants' representative said the plaintiff had, among other applicants, been asked to submit samples of his work to see if he could turn out anything for them. He was told that he would be given an order for sketches only if his work was approved of, but it had not been approved. The Assistant Registrar gave judgment for defendants and allowed their witness his expenses.

#### THE ELEPHANT CHEMICAL CO., LTD.

Before Judge Parry, at the Lambeth County Court on October 14, George Lickfold, commercial traveller, Southampton, brought an action against Henry Harris to recover 25*l.* paid for shares in the Elephant Chemical Co., Neate Street, Camberwell. Lord Tiverton appeared for plaintiff, and Mr. Cairns defended.

The plaintiff's case was that Mr. Harris decided to turn his chemical business into a company and published a prospectus of the usual kind, with articles of association and memorandum of agreement. On the faith of this plaintiff applied for shares, sending 25*l.* for 25 shares, which were duly allotted. Subsequently he discovered that the company went to allotment and was registered upon a set of articles different from those set out in the

prospectus. The alteration was material and was not made by special resolution. Plaintiff asked for the return of the money, which was refused.

After hearing the plaintiff and other witnesses and counsel on both sides, his Honour gave judgment for the defendants, stating that the evidence showed that when plaintiff did find out all about the articles he gave a proxy for the annual meeting, thereby confirming the contract of purchase. There was no evidence that he had sustained any damage.

#### ZINC OXIDE FACE-LOTION.

On October 11 a case was down for hearing at the Cardiff County Court, in which a lady claimed damages from Messrs. Duck & Son, chemists, St. John's Square, Cardiff, for alleged negligence through supplying a face-lotion consisting of zinc oxide, glycerin, and rose-water. We understand that a strenuous defence had been prepared by the Chemists' Defence Association, and Mr. Glyn-Jones had been briefed to represent the defendants; but the plaintiff's legal advisers undertook, a day or two before the hearing of the case, to withdraw it. We are informed that medical evidence was in readiness to prove the harmlessness of the lotion, and that the skin-eruption which it was alleged had been caused by it could not possibly be due to the use of such a preparation. Analytical evidence was ready to show that the lotion compounded by Messrs. Duck and supplied to the plaintiff was strictly in accordance with the recipe, and pharmaceutical evidence was ready to prove that the defendants had used the same formula for the preparation of their lotion for many years, and that no complaints had ever been received from anyone who had used it. It was also intended, we understand, to show to the Court that a similar formula is in use at many well-known hospitals, and that many preparations for cutaneous and toilet use contain the above-named ingredients in numerous combinations. Mr. C. H. Kirby attended the court on October 11, instead of Mr. Glyn-Jones, and asked for costs. The Registrar said he doubted whether an order was necessary, and whether the defendants were not entitled to costs upon the notice of discontinuance without an order, but that in any case the defendants were entitled to costs, which were awarded.

#### A TINCTURE OF RHUBARB CASE.

At the Edmonton County Court, before Judge Tindal Atkinson, on October 13, William Crowther, Wandsworth Road, Stoke Newington, brought an action against Leon Underwood, described as a chemist, Neville Road, Stoke Newington, to recover damages alleged to have been sustained in consequence of the defendant supplying him with a poisonous article in mistake for tincture of rhubarb. Mr. W. T. Fairbairn appeared for the defendant. The plaintiff appeared on his own behalf, but had no witnesses other than himself. His statement was that he sent his landlord's daughter to defendant's shop for fourpennyworth of tincture of rhubarb, took a dose of it, was ill during the night, sent for a doctor next day, who said he had been poisoned, and used the stomach-pump on him. The landlord had also taken some of the tincture and became sick. Plaintiff was unable to go to work for two days and he incurred expenses amounting to 2*l.* 3*s.* Mr. Fairbairn pointed out that four months elapsed before the summons was issued, and submitted that the plaintiff's case had not been made out. Defendant, however, gave evidence, stating that he had supplied the girl with tincture of rhubarb on a number of occasions and that was what he gave her on May 12. The poisons were kept in another part of the shop. The landlady came and asked if he had made a mistake, and he went and saw the plaintiff. He told the Court what subsequently took place between him and defendant, and admitted offering to make good a day's pay, but said that was because the landlord had been a good customer and he did not want to lose him. James Underwood, defendant's brother, whom he assists, said that he saw the defendant serve Miss Reynolds from the tincture of rhubarb bottle. His Honour said that the plaintiff had not brought either the doctor or the landlord's daughter, and gave judgment for the defendant.

THE "Daily Chronicle" states that in addition to other trades, King Peter of Servia conducts a chemist's business.

## GAZETTE.

### Partnerships Dissolved.

BREWER, H. M. and R. E. W., Newport, Mon., physicians and surgeons, under the style of Messrs. Brewer.

CRUICKSHANK, J. D., BROOK, T. S., and HARDENBERG, E. J. F., Chingford, medical practitioners, under the style of Drs. Cruickshank, Alcock, Brook & Hardenberg.

DOIDGE, MAURICE JOHN; LAWRIE, DAVID; and WILLCOX, J. W. JAMES, Glastonbury, general medical practitioners, under the style of Doidge, Lawrie & Willcox, so far as regards Maurice John Doidge.

### The Bankruptcy Acts, 1883 and 1890.

#### RECEIVING ORDER.

EDWARDS, H. W. (lately trading as the Arcadia Malt Products Co.), 79 Mark Lane, London, E.C.

## LIMITED COMPANIES.

### New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

LEWIS BERGER & SONS (AUSTRALIA), LTD. (P.C.).—Capital 6,000*l.*, in 10*l.* shares. Objects: To carry on in Australia and New Zealand a business not particularly described.

JAENO'S, LTD.—Capital 5,000*l.*, in 1*l.* shares (1,000 non-cumulative preference). Objects: To take over the rights in "Jaeno's Balsam," formerly dispensed and sold by D. R. Jones, trading as L. E. Thomas & Jones, manufacturing chemists, 129 Hall Lane, Liverpool. The first directors are D. R. Jones and J. T. Littler. R.O., 129 Hall Lane, Liverpool.

J. W. KISSANE & CO., LTD. (P.C.).—Registered in Dublin. Capital 300*l.*, in 1*l.* shares. Objects: To carry on the business of a chemist and druggist at 7 Main Street, Tipperary, as "J. W. Kissane & Co., Ltd." The first subscribers are J. W. Kissane, 7 Main Street, Tipperary, chemists' assistant; R. A. L. Wilson, Ph.C., 7 Main Street, Tipperary; and Michael Tynan, Church Street, Tipperary, solicitors' accountant. The first two are directors. R.O., 7 Main Street, Tipperary.

EDWARDS' DENTAL MANUFACTURING CO., LTD.—Capital 50,000*l.*, in 49,250 preference shares of 1*l.* each and 15,000 ordinary shares of 1*s.* each. Objects: To acquire the business of W. Edwards & Co. Depot, Ltd., and to carry on the business of manufacturers of dental, chemical, surgical, and optical instruments and appliances, dealers in salts, acids, alkalies, drugs, etc. The first directors are P. Barca, H. A. Povah, and E. J. Smith. Qualification, 1,000 shares. R.O., 30 Finsbury Pavement, London, E.C.

DELICE ET CIE., LTD. (P.C.).—Capital 1,001*l.*, in 20 preferred ordinary shares of 50*l.* each and 20 deferred ordinary shares of 1*s.* each. Objects: To carry on the business of manufacturers of and dealers in toilet requisites, perfumers, pharmaceutical, medicinal, chemical, and industrial preparations, etc., and to adopt an agreement with C. S. Good, W. P. Higham, H. Joseph, and F. McDonald. The first directors are C. S. Good and W. P. Higham. R.O., 210 Capel House, 62 New Broad Street, London, E.C.

### Company News.

A. & F. PEARS, LTD.—The directors have declared a dividend at the rate of 5 per cent. on the preference shares for the half-year ending June 30, 1911, making with the interim dividend 6 per cent. for the year; they have also declared a dividend at the rate of 12 per cent. on the ordinary shares, making with the interim dividend 10 per cent. for the year. The amount carried forward is 32,999*l.* The report adds that "the rise both in expenses and the cost of materials continues; it will therefore be gratifying to the shareholders that the increasing demand for Pears' soap enables the directors to recommend the customary substantial dividend." The retiring director is Mr. Joseph Beecham, who offers himself for re-election. The general meeting is to be held at the Holborn Restaurant, London, W.C., on October 26.

JOHN CLARKE & CO., LTD.—Before the Irish Vacation Judge on October 13, Mr. James Andrews, B.L., applied on behalf of Martha K. Clarke, widow, that an arrangement agreed to by a majority of the unsecured creditors, debenture holders, and shareholders should be confirmed. Creditors to the amount of 19.028*l.* had, counsel said, agreed to the proposal, which was opposed by others to the amount of 2,500*l.* The scheme proposed that after payment of the debentures in

full the unsecured creditors of the company, other than the shareholders and depositors, should first receive a composition of 12s. 6d. in the pound upon the amount of their debts, payable by instalments directed by the liquidator, who had been appointed by the Master of the Rolls. The shareholders and depositors were to rank next for 12s. 6d. in the pound, the balance remaining to be distributed *pro rata* among the shareholders and depositors. The liquidator was also to be directed to waive any calls due upon foot of any shares issued. Mr. Matheson, K.C., on behalf of the liquidator, consented to the scheme. The Judge said he thought it better to let the application stand until the sittings, when the Master of the Rolls could deal with it himself.

### Charges or Mortgages.

**Under the Companies (Consolidation) Act, 1908, Section 93, the mortgages or charges therein specified are (except in Scotland) void against the liquidator and any creditor of the company unless filed with the Registrar in accordance with the conditions laid down in the Act.**

**Full statutory particulars of the following have been filed at Somerset House, London, W.C.**

*Angus A. Macdonald, Ltd.*—Debenture dated September 15, 1911, to secure 500*l.*, charged on the company's undertaking and property, present and future, except uncalled capital. Holder: P. Macdonald, Glencoe, Edge Lane, Stretford, Manchester.

*Bowmans (Warrington), Ltd.*—Debenture dated October 1, 1911, to secure 300*l.*, charged on the company's undertaking and property, present and future, including uncalled capital, subject to a prior debenture dated April 11, 1910. Holder: K. O. Homfray, 40 Lansdowne Road, West Didsbury, Manchester.

*Dental Manufacturing Co., Ltd.*—Issue on September 21, 1911, of 400*l.* debentures, part of a series of which particulars have already been filed.

*North & Co. (Oxford), Ltd.*—Particulars of 2,000*l.* debentures created June 26, the whole amount being now issued. Property charged: The company's undertaking and property, present and future, including uncalled capital. No trustees.

*Phoenix Veterinary Supplies, Ltd.*—A memorandum of satisfaction in full on September 22, 1911, of debenture dated October 20, 1910, securing 2,000*l.*, has been filed.

### BUSINESS CHANGES.

**Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.**

MR. A. J. BOULTON has joined the travelling staff of Messrs. James Boulton & Co., Ltd., Stratford.

MR. J. W. COX has taken over the business of Hotchkess's Drug Stores, 732 Stratford Road, Birmingham.

MESSRS. BATTLE & WATTS, wholesale druggists, have removed from Fore Street to 18 Wellclose Square, London, E.

MR. J. OLIVER, 37 Market Place, Devizes, has disposed of his business to Mr. H. L. Gerry, who will trade as Oliver & Gerry.

MESSRS. STRACHAN & Co., chemists, have removed from 175 Victoria Road, Aston, to High Street, Bartons Arms, Aston, Birmingham.

TAYLORS' DRUG CO., LTD., are taking over the stock of Messrs. Alwyne, Dyson & Co., Ltd., Grainger Street, Newcastle-on-Tyne, and will shortly open a business at the opposite side of the street.

MESSRS. SOLPORT BROTHERS, 188 and 190 Goswell Road, London, E.C., inform us that they have made arrangements for taking over the old-established business of Mr. George Pattison, of 387 City Road, London, N., and expect in a few days to be able to supply Pattison's bath-gloves, Pattison's chest-protectors, Young's corn-plasters, etc., with promptitude from stock at their Goswell Road address. Mr. Sidney Pattison, who has been managing the business, is not joining Messrs. Solport Brothers, other arrangements having been made; but Miss Pattison, who has for many years controlled the manufacture of the goods, is entering their service, which will be an additional guarantee that the same standard of excellence will be maintained.

### BIRTHS.

BARLOW.—At 2 Palmerston Road, Southsea, on October 18, the wife of T. O. Barlow, Ph.C., of a son.

BURROUGH.—At 12 Langside Avenue, Putney, on October 4, the wife of Francis T. Burrough (James Burrough, Ltd.), of a daughter.

GRANT.—At "The Nook," Windmill Road, Ealing, W., on October 14, the wife of W. A. Grant, chemist and druggist, of a son.

ROBERTSON.—At 111 Market Street, St. Andrews, N.B., on October 15, the wife of Charles Robertson, chemist and druggist, of a son.

SHERIFFS.—At Deveronlea, Troon, on October 13, the wife of Alexander Sherriffs, chemist and druggist, of a son.

WHYTE.—At 2 Waterloo Street, Calcutta, on October 14, the wife of Edward Whyte, chemist and druggist, of a daughter.

### MARRIAGES.

CRUMMACK—VASEY.—At Christ Church, Bridlington, recently, George Cecil Crummack, Ph.C., son of Mr. J. Crummack, Doncaster, to Maud, daughter of the late Mr. J. Vasey, Doncaster, and of Mrs. Vasey, 5 The Crescent, Bridlington.

DURNO—ANNANDALE.—At 35 Queen Mary Avenue, Glasgow, by the Rev. John Stewart, M.A., Premnay, Aberdeenshire, on October 14, Alexander Emslie Durno, Ph.C., late of Sydney, N.S.W., to Florence, daughter of Charles Annandale, M.A., LL.D., and granddaughter of the late Rev. John Wilson, minister of Premnay.

MCRobb—FORSYTH.—At St. Andrew's Presbyterian Church, Cape Town, by the Rev. W. H. Richards, on September 19, William Christie McRobb, chemist and druggist, Johannesburg, to Janet, second daughter of Mr. D. Forsyth, 19 N.W. Circus Place, Edinburgh.

SCOTT—MORFITT.—At Mansfield Road Wesleyan Church, Nottingham, by the Rev. Benjamin Broadley, on October 17, Samuel Lamplough Scott, chemist and druggist (of Messrs. Fairchild Bros. & Foster's British staff), to Mary Morfitt, Gordon Villa, Rookwood Road, Nottingham, granddaughter of the late Mr. John Morfitt, jun., of Leeds.

STILES—PEACOCK.—At St. George's Church, Doncaster, by the Vicar of Doncaster (the Rev. Canon Sandford), on October 11, Harry W. Stiles, chemist and druggist, eldest son of Mr. M. H. Stiles, Ph.C., F.R.M.S., to Winifred (Pansy), third daughter of Mr. W. W. Peacock, Queen's Road, Doncaster.

### DEATHS.

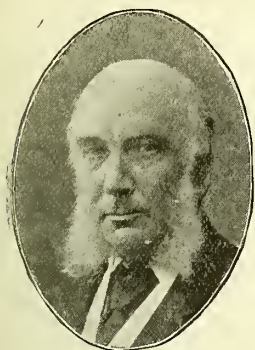
GAUL.—At The Beeches, Brunswick Terrace, Wednesbury, on October 7, Mr. Thos. Henry Gaul, J.P., for many years with Chance & Hunt, Ltd., chemical manufacturers, of Castleford (Yorks), and Wednesbury, aged seventy-two.

HARDY.—On October 4, Mr. John Hardy, chemist and druggist, aged seventy-two. Mr. Hardy, who was for many years in business at Bourton-on-the-Water, passed the Modified examination in 1868. He had recently disposed of his business owing to ill-health. He was a sidesman at the Parish Church.

LEES.—At Avondale Road, Stockport, on October 11, Mr. William Worthington Lees, for thirty-two years dispenser at the Stockport Infirmary, aged seventy-four.

SHARP.—At 214 Mid Stocket Road, Aberdeen, on October 10, Alexander, son of Mr. John Sharp, chemist and druggist, aged nine months.

KERR.—At Windsor Street, Dundee, on October 17, Mr. Charles Kerr, J.P., Ph.C., aged seventy-six. Mr. Kerr was at business in his usual



MR. C. KERR.

good health on Tuesday. In the evening he attended a meeting of the deacons of Panmure Street Congregational Church. On arriving home Mr. Kerr was seized with a severe attack of coughing. He gradually collapsed, and died in a few hours from heart-failure. Dr. Charles Kerr, his son (who is in practice in Dundee), was in attendance. Mr. Kerr was the doyen of pharmacy in Dundee, where he had been in business at 56 Nethergate since 1864. He was a Forfarshire man by birth, and was apprenticed in Glasgow in 1849, subsequently serving as an assistant with Messrs. Duncan & Flockhart, North Bridge, Edinburgh, at the time when Mr. James Mackenzie, the late Mr. James Buchanan, and other young men who became well known in Scottish pharmacy were also assistants. The premises that he opened as a pharmacy in Dundee are under the Royal Hotel, and there he built up a first-class connection. He passed the Major examination in 1868. Mr. Kerr's dignified demeanour and high regard for the position of the pharmacist in themselves commanded respect; but in the days when Dundee was overflowing with prosperity, as it was in the 'sixties and 'seventies, he got remarkably good prices, and gave value for them. His pharmacy was also noted for its displays of medicinal and toilet products, either with his own name attached to them or world-famed specialities. He resisted as long as he could the cutting of prices, and was not slow to get his local brethren to agree to uniformity in prices, as well as in action. He had two branch pharmacies in different parts of the town, one in Perth Road rivaling his Nethergate shop for the dispensing and family connection. Mr. Kerr was one of the first in Scotland to support the Chemists' and Druggists' Trade Association of Great Britain, and was a member of the Council during the greater part of the lifetime of that Association. He was also a member of the Executive of the North British Branch of the Pharmaceutical Society, and a loyal adherent of the British Pharmaceutical Conference, which he was accustomed to attend regularly. He was Chairman of the Local Committee which made arrangements for the meeting held in Dundee in 1902. He had travelled widely, one of his last trips being to the Holy Land, on which occasion he visited the College of Pharmacy at Beyrout. He was a genial and kindly man, fond of a "crack" with old friends, and no man in Forfarshire pharmacy was more respected by his *confrères*. He is survived by Mrs. Kerr, four daughters, and one son.

WELLS.—At 41 Stone Street, Maidstone, on October 7, Elizabeth Marian, wife of Mr. W. Geo. Wells, chemist and druggist, aged fifty-two.

## WILLS PROVEN.

MR. SAMUEL CRANNERS WESTON, Wymondham, Norfolk, for many years in business as a chemist at New Buckenham, who died March 25, left estate valued at 1,160*l.* 18*s.* 10*d.* gross, with net personality 110*l.* 1*s.* 2*d.*

MR. JAMES SIEWRIGHT, The Square, Cullen, N.B., chemist and druggist, who died on June 3, left personal estate in the United Kingdom valued at 2,935*l.*, of which 2,516*l.* is in Scotland. Probate has been granted to his widow, Mrs. Mary Ann Duffins Siewright.

LADY SARAH ANN MARTIN-HOLLOWAY, Whitmore Lodge, Sunninghill, Berks, who died on August 10, left estate of the gross value of 27,860*l.* 10*s.* 4*d.*, of which 27,054*l.* 5*s.* 9*d.* is net personality. Probate of her will has been granted to her daughter, Mrs. Cecilia Sabina Oliver.

## TRADE NOTES.

MESSRS. RICHARD DANIEL & SONS, Babington Lane, Derby, publish a 232-page net price-list of patent medicines, druggists' sundries, and toilet-requisites, which is well arranged, certain sections being illustrated. They invite inquiries for copies.

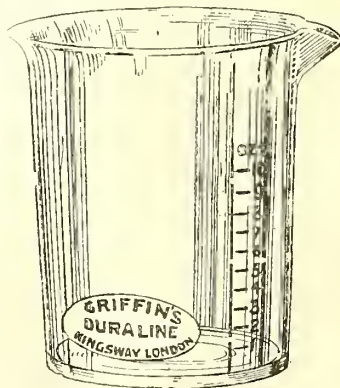
LYSOL COUNTER WRAPPERS.—Messrs. Chas. Zimmermann & Co., 9 and 10 St. Mary-at-Hill, London, E.C., are now distributing to the trade blocks of counter wrappers measuring 11½ by 8½ inches, one side of which bears an effective advertisement of "Lysol—the nurse's favourite disinfectant."

"EPININE OPHTHALMIC TABLOIDS."—Messrs. Burroughs Wellcome & Co. have added a "Tabloid" form for ophthalmic use to their "Epine" series of products. A 1-in-1,000 solution of Epinine produces marked and sustained pallor of the conjunctival mucous membrane when instilled into the eye, and we are informed that good results have already been obtained with it in ophthalmic practice. Each ophthalmic "Tabloid Epinine" contains 0.006 gram of Epinine. They are put up in tubes containing twelve.

LIQUORICE-JUICE.—The demand for liquorice-juice in sticks is still well maintained, although other forms of this remedy have also become popular. A new stick liquorice is now being offered through our advertisement pages under the brands "Apollo" and "Mafco." We have had samples submitted to us and find it to be a pure and palatable product. We understand that it is manufactured by a firm who have been in the business sixty years. Their agents in London, Messrs. Macandrews & Forbes, 1 Finsbury Court, London, E.C., supply neatly printed leaflets containing useful memoranda regarding liquorice and its uses.

POWDO is the latest toilet novelty of the "O" series, brought out by Messrs. Thomas Christy & Co., 4, 10 and 12 Old Swan Lane, Upper Thames Street, London, E.C. Powdo is a novel form of powder-paper, and is sent out in rolls which are contained in a round metal case 2½ in. long. A nickel container and three cartridges are packed together and sell at 7½*d.*, and a gilt case with four cartridges sells at 1*s.*, these prices being protected on the P.A.T.A. system. A small but attractive showcard has been produced for the purpose of advertising Powdo, which, with literature, is supplied to chemists on application. Messrs. Christy also have a window-display offer to make regarding the "O" toilet-preparations, about which inquiries can be addressed at the same time.

DURALINE MEASURES.—Messrs. John J. Griffin & Sons, Ltd., Kingsway, London, W.C., have sent us a sample of a new photographic measure, which they are selling under the name of "Duraline." The chief point about these measures is that in the manufacture a very hard and tough glass is employed with a view to minimising breakages which occur in undue proportion in most photographic dark-rooms. As will be seen by the illustration, "Duraline" measures are beaker-shape, and they are made in two sizes—4 oz. and 10 oz.—retailing at 1*s.* 4*d.* and 1*s.* 9*d.* The measures are also stated to withstand in a high degree violent changes of temperature. Messrs. Griffin also call our attention to the fact that the season for Noctona gaslight paper and Gaslyt lantern plates is at hand. The chief feature of the lantern plates is that they are manipulated in gaslight so that photographic work with them need not necessarily be confined to the dark-room.



## Chemists' and Druggists' Society of Ireland.

A SPECIAL general meeting was held at 11 Waring Street, Belfast, on Thursday evening, October 12, to consider the Poisons and Pharmacy Bill (Ireland) introduced by Captain Craig, M.P. In the absence through indisposition of the President (Mr. Robert Cambridge, Carrickfergus) the chair was occupied by Mr. Samuel Gibson, J.P. Among those present were Messrs. William Haslett, J. D. Carse, S. Suffern, J. Walsh, J. Long, S. Nevin, J. Gray, J. Stevenson, W. J. Jenkins, James Richardson, S. Lindsay, George Johnston, D. Mansen, James Macauley, William Martin, W. Corbett, James Guthrie, S. Haydock, R. A. Jamison, J. Frackelton, and W. J. Rankin (Hon. Secretary).

Mr. Rankin reported that he had written to the Pharmaceutical Society of Ireland asking for their views on the Bill. The reply stated that they had the matter under consideration. He hoped to hear the mind of the trade at that meeting.

Mr. J. D. Carse said that the limited companies were bringing in the Bill to get their difficulties done away with, and he thought it was a good opportunity for the Society to get their difficulties removed. He had asked that the meeting should be called to consider whether they should not try to have some amendments in additional clauses put to the Bill as a *quid pro quo*. They wanted the two years' apprenticeship done away with, so that their apprentices, assistants, or proprietors, and chemists and druggists or registered druggists should be in a position to go up and take the pharmaceutical qualifications. In lieu of the two years he thought they should do a six months' compulsory course for the study of compounding and dispensing prescriptions. If the Bill were carried as it stood, the market would be flooded with companies who would do their work with apprentices, but the policy he advocated would help members of the trade to get apprentices. This question should be finally settled. If it were, he believed it would mean that one or more of the directors must be a Ph.C., and that would limit the number of companies.

The Chairman said the point was whether they would allow the companies to establish themselves more firmly than at present.

Mr. Walsh said that if chemists and druggists could get benefit by amending the Bill it would be a good thing. At the worst they could lose nothing if their amendments were lost.

Mr. Nevin approved of Mr. Carse's suggestion, and asked if they would have to study for the Preliminary examination as well?

Mr. Carse: I am afraid you would.

The Chairman asked if they were agreeable to the principle of the Bill to give the companies a legal position which they did not at present enjoy. He thought they should have no objection, for he did not see why companies in Ireland should be put in a different position to those in England.

Mr. Richardson: May we take it for granted the P.S.I. will oppose the Bill strongly?

The Chairman: I don't think so. They say the Bill is under consideration.

Mr. Suffern said that in his opinion it was only a matter of time till the proposal of the Bill became law.

Mr. Carse: If they don't get it this time they will try and induce the Government to bring in a Bill, and if the Government take it up it will go through. I would as soon the Government took it up, for we would get our amendments then.

Mr. Martin spoke in favour of opposing the companies, and added that all felt the difficulty of getting apprentices.

In the course of further conversation the opinion of several members was expressed by the Chairman in his remark, "I think the best way to oppose the Bill would be to put down amendments to it." Messrs. Gray, Rankin, Mansen, Richardson, and Corbett also spoke, and Mr. Carse stated that Mr. Birrell

is in favour of the Bill, which is identical with that of Great Britain. Several members advocated postponement of a decision until the views of the P.S.I. were ascertained, but eventually the whole matter was referred to the General Committee of the Society.

## National Insurance Bill.

### Medical Men and Friendly Societies.

THE Chancellor of the Exchequer spoke at Whitfield's Tabernacle on Saturday, October 14, to about 3,000 people, giving a popular exposition of the Bill. He has since had another conference with the Friendly Societies and medical representatives at the Treasury, and on Tuesday evening, October 17, the Grand Master of the Manchester Unity of Oddfellows (Brother Warren), speaking at Guildford, said that "after the conferences which the Chancellor of the Exchequer had had with the medical profession and representatives of the Friendly Societies he was more than hopeful that they would come to terms. The doctors' question was the most difficult, and that had been settled; and as to the members' contributions, he believed they would get some consideration." This may or may not have a serious influence upon the position of chemists under Clause 14, if the settlement means the reopening of the clause. Chemists have much to lose and little to gain by further amendment of the clause in the interests of doctors and Friendly Societies; but the Chancellor ought not, we venture to say, do anything of this kind without reference to chemists' representatives.

Mr. Alfred W. Watson, actuary of the Manchester Unity of Oddfellows, the Hearts of Oak, and the Royal Liver Collecting Society, has issued a report on the effect of the Bill on the Manchester Unity and societies generally. It is highly favourable, and Mr. Watson says "friendly societies would have reason to regret keenly its withdrawal or destruction, for it will, if passed, relieve them of liabilities amounting to at the least 10,000,000*l.*, and possibly much more."

### The Schedule of Prices.

Addressing his constituents of South Aberdeen last week, Mr. G. B. Esslemont, M.P., said he thought the chemists had a stronger case than medical men. In their case contract is a very unsatisfactory arrangement, and for this reason: that they never can tell what class of remedies might be prescribed for any given disease. Supplying drugs at so much per head per annum is a terrible gamble. He thought by far the best arrangement is that adopted in Germany, where the [?] prices of drugs are standardised, and those wishing to do this business are under an obligation to supply the drugs at a fixed and fair price.

A member of Parliament ("P. W. W."), writing to the "Daily News," gives an intelligent summary of the National Insurance Bill which is refreshing in view of the many misunderstandings which are current. Regarding chemists, "P. W. W." writes:

As a rule, doctors will no longer dispense, but Health Committees are allowed a discretion which will enable them to deal with country districts where there are no chemists. An important amendment includes medical appliances among drugs and dressings which may be ordered and paid for under the Bill. Chemists will form a local panel, just like the panel of doctors. Every chemist, duly qualified, must be admitted, but there is, as before, a right of expulsion. There is no idea of asking chemists to accept a flat rate of so much a member for supplying drugs. When doctors do the prescribing, such a flat rate would be far too speculative. Schedules of drugs will doubtless be prepared and prices fixed, as between the chemist and the Health Committee. There is to be as free a choice of chemists as of doctors, which safeguard would prevent any friendly society or group of friendly societies compelling members to deal at some particular—possibly co-operative—store. On these lines it ought to be simple to arrange matters with the chemists who under the Bill secure a great increase of business, with absolute certainty of payment. One thing to be watched is the quality of drugs, but this is a remark which might apply to the present régime.

### German Conditions.

Mr. G. P. Forrester, F.C.S., in a paper in "The Lancet" deals with "Some Administrative Defects of the National Insurance Bill," in which he expresses the opinion that the Bill is being unduly hurried through Parliament without due consideration being given to many of the details. The defects revealed in the analogous German systems of invalidity and sickness insurance are referred to. The writer foresees difficulties which may arise in framing a tariff for doctors' fees. The following statistics, with which the paper concludes, are of interest. They are the principal items from the balance-sheet for 1909 (the latest available) of the German insurance against sickness. The total number of persons insured is 12,519,785 :

	£	Per person insured s. d.
Contributions from employers ...	5,079,350	8 1½
Contributions from employes ...	11,448,180	18 3½
Cost of medical attendance ...	3,516,762	5 9
Cost of medicines, etc. ...	2,223,509	3 7
Sick pay to members and dependents ...	6,722,821	10 9½
Payments to hospitals ...	2,085,325	3 4
Maternity grants ...	305,350	—
Cost of administration ...	961,306	1 7
Total reserve funds of all sick clubs ...	12,271,010	19 7½

## The Brewers' Exhibition.

FOR over thirty years an exhibition of brewing apparatus and materials has been held at the Royal Agricultural Hall, Islington, London, N., and the thirty-third is being held this week. Each year THE CHEMIST AND DRUGGIST has visited the exhibition and reported on those exhibits which are of interest to the drug-trade. This is a record of service to practising chemists. In 1879, when we reported on the first Licensed Victuallers' Exhibition, as it was then called, we said: "Special exhibitions are likely to be visited by the special class of people to whom they will be interesting, and if properly limited will avoid the risk of being too extensive." We have no means of judging of the size of the exhibition in those days, but the cost of exhibiting has probably been sufficient to prevent the too extensive growth which was feared. This year there is a fine display of machinery and requisites employed by brewers and licensed victuallers, the exhibits including many chemical products and

### AERATED-WATER MACHINERY.

Idris & Co., Ltd., have a show of aerated waters, Karn wine, ginger-wine, syphons and syphon-polishing machinery. The "China-way" syphons are still making headway, and there is exhibited for the first time syphon-tops made of "Lumin" metal, which is, as its name implies, an alloy of aluminium. The point about "Lumin" is that alkalies do not act upon it. The P.A.T. Syphon Co., Ltd., are showing syphon-tops made of pure aluminium. These are cast in one piece, and the fact that they do not oxidise should save much labour in keeping the tops bright. Syphons are also exhibited by the British Syphon Manufacturing Co., successors to Durafor & Co., who have a very large space in the Hall. P. W. Taylor & Co., Ltd., the "Hygienic" syphon, in the construction of which no metal is employed, and F. Sharman.

Consol Automatic Aerators, Ltd., show the "Consol" automatic aerator and the "Consol" combined aerator and syphon-filler. We noted here a series of syrups for making hot drinks, which is a useful hint for winter trade. The syrups included black-currant, peppermint, and lemon. Flugel & Co. have an automatic carbonating machine in operation, and there is working at the stand of H. J. West & Co., Ltd., an apparatus for making aerated waters on the low-pressure system.

### BOTTLE-STOPPERING.

On entering the exhibition from Upper Street one finds on the right a very interesting display by the Cork Trade Association, the object of which is to advertise the advantages of cork as a stoppering substance. Here one sees demonstrated the stages through which the bark passes

until the perfect stopple is produced. The neck of a flask stopped with cork is shown which was excavated in Egypt, and is interesting as proving that cork was employed A.D. 300 as we use it to-day. L. Lumley & Co., Ltd., are showing "Dan" corks, and demonstrating the machinery with which the corks are affixed to bottles. There is exhibited a stack of bottles of aerated water of the various makers who already employ "Dan" corks. The Crown Cork Co., Ltd., and the Goldy Co., Ltd., are also exhibiting. R. Powley & Sons show swing stoppers, which are so much used for milk-bottles, and the Bank Bridge Stopper Works, Ltd., have a bright exhibit of ebonite and lignum vitæ stoppers and rings.

### OTHER MACHINERY.

The Aluminium Plant and Vessel Co. have a fine exhibit of aluminium vessels which has a special interest as showing that there are now no limitations of size to consider in making aluminium plant. There is a growing demand for the metal in chemical works and pharmaceutical laboratories. Many varieties of bottle-washers are shown, the chief being the "Eureka" (G. R. Seton & Co., Ltd.), the Dawson machines, the "Victor" (Thomas Hill), the "Eureka" and "Coronation" (Farrow & Jackson, Ltd.), the Hopkins' machines, and the Wannbacher's machines. Corking-machines are also shown by L. Lumley & Co., Ltd., and Dawson Bros., Ltd.; while the chief labelling apparatus are those exhibited by L. Lumley & Co., Ltd., the Purdy American Machinery Co., and Herbert Dawe. The Berkefeld Filter Co., Ltd., are demonstrating the working of their candle filters and the "Winco" semi-rotary wing pump. There is a handy ice-making machine shown by the British Vacuum Ice Machine Co., and at the far end of the Hall the exhibit of W. & C. Pantin shows the method of moving goods in the factory by gravity. H. C. Slingsby has a varied exhibit of patent trucks and expanding ladders, which are made in the lighter kinds needed in chemists' shops and warehouses. The National Cash Register Co., Ltd., have a fine exhibit of the latest models of National cash registers and autographic tills. Fine instruments, such as hydrometers used in brewing, are shown by W. Reeves & Co., Negretti & Zambra, Dring & Fage, and Joseph Long.

### BEVERAGES.

Coleman & Co., Ltd., are showing Wincarnis at the far end of the Hall, and have some new counter literature which chemists will find useful. Humphrey, Taylor & Co., Ltd., are exhibiting "Junora Wine of Health," which owes its restorative properties to lecithin from eggs, with which the wine is medicated. "Junora" is a pale sherry-coloured wine, and strikes out quite a new line from the coca wines which have enjoyed such a long popularity. Liebig's Bonovin is shown at Stand 103—it is a beef-and-malt wine. John Symons & Co., Ltd., and H. White-way & Co., Ltd., show special brands of bottled cider suitable for chemists' trade. Liebig's Extract of Meat Co., Ltd., exhibit effectively both Oxo and Lemco. Of turtle-containing extracts the chief is Turtle Cup (1911), Ltd., where free tasting samples of turtle-cup are a decided attraction. Further down the same side John Lusty shows various products of the turtle, including soup tablets and extract, and turtle-oil soap. Branson's and Clark's "Optimus" coffee-extracts are represented by exhibits.

Among the auxiliary requirements of the brewer and aerated-water maker there are many

### CHEMICAL PRODUCTS.

Perhaps the most used is saccharin, and at the stand of the Saccharin Corporation, Ltd., inquiries regarding working details may be made. The London Essence Co. are the chief exhibitors of soluble essences, essential oils, and fruit-flavours, there being also a small show of perfume. A. Boake, Roberts & Co., Ltd., show caramels for colouring, "K.M.S." as a preservative, and various primings; while the Sugar and Malt Products, Ltd., exhibit invert, glucose, and other special sugars used in the brewery. "Tintose" is a special caramel produced by Gillman & Spencer (1902), Ltd., and Valentin, Ord & Co., Ltd., sell colouring-products and dextrin-maltose. Phospho-citric acid is the *pièce de résistance* at Hassall

& Co.'s stand, and Edmc. Ltd., show a special malt-extract for brewers' use. For coating the interior of casks there are Kramer's lacquer and antacidine. Carbonic acid in liquid form is shown by Mann, Crossman & Paulin, Ltd. Ukryl, ukaline, and ukazone are respectively a preservative yeast food and cleanser made by W. A. Wayland & Co., Ltd. Other disinfectants are "Tarsap," the makers of which also deal in veterinary medicines, and Phillips's "Unxld" deodoriser, made by the London Chemical Co.

## Analysis of Essential Oils.

**M. E. LOUISE**, in a paper occupying five pages of the "Journal de Pharmacie et de Chimie" (1911, 5, 193), describes "A new method of analysis, by means of miscibility curves; its application to the analysis of essential oils and balsams employed in pharmacy and in perfumery." Briefly, the method consists in noting the temperature of complete solubility of a mixture of 2 c.c. of the essential oil, 2 c.c. of petroleum ether (termed "type petrol." of which no characters are given), and varying quantities of aniline. A series of experiments is carried out, commencing with 5 c.c. of aniline and ending with 30 c.c. The mixture is warmed, then cooled, and the temperature at which turbidity occurs is the "miscibility temperature." The series of determinations gives the data for constructing a curve of which the horizontal axis is the number of c.c. of aniline used, and the vertical axis the temperature of miscibility.

As this is the third paper on similar subjects by the same author, it seems desirable to point out the uselessness of such a "process" as applied to essential oils. The author reproduces the curves, so constructed for the following essential oils—lavender, spike, turpentine, neroli, petit grain, lemon, peppermint, santal, linalyl acetate, and copaiba. If, in the first place, these curves be examined, it will be seen that they are, one and all, parabolic curves, parallel to each other. This, in other words, means that the relations between the solubility temperatures vary almost identically with all the oils as the conditions change, and therefore the determination of one temperature under given conditions will give just as much information as the determination of a number, and the consequent plotting of the parallel curves. Taking oil of lavender as a typical case of the author's, he says:

"It is seen that oils of lavender and spike have different curves, but sometimes too near for it to be possible to affirm with certainty the presence of a small amount of spike oil in the lavender oil. It is otherwise with oil of turpentine, whose curve, far distant from oil of lavender . . . it becomes, therefore, possible to determine sufficiently approximately the amount of oil of turpentine in adulterated lavender oil with rapidity."

The actual facts are as follows: with 10 c.c. of aniline, the temperature of miscibility of a given sample of lavender oil containing 42 per cent. of esters was 31.5° C.; of a given sample of spike it is 32.5°; and of a sample of turpentine 49°. The differences between the spike and the lavender are obviously accidental; both are readily soluble in practically every solvent, and any such determinations are a ridiculous waste of time. With regard to turpentine it is of course less soluble, but if the sample be tested by adding three volumes of 70-per-cent. alcohol, the insolubility of turpentine is at once apparent, and this simple test, taking a few seconds, will yield far more information than the tedious series of determinations described here. It is difficult to regard a paper such as this seriously, although further "researches" in the same direction are promised.

Perhaps the most humorous statement made is that dealing with peppermint oil:

"Their curves (*i.e.*, of French, Japanese, and American peppermint oils) are parallel and sufficiently far apart to make it possible to distinguish each of these three samples."

In the three samples we find a maximum difference in the miscibility temperatures of 2° under any circumstances. This is of course accidental, and any claims that this "process" has any utility in essential-oil analysis are quite untenable. It is unscientific and totally useless.—*E. J. Parry.*



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.

Telegraphic Address: "CHEMICUS LONDON."

Telephone No.: BANK 822 (two lines).

## INFORMATION WANTED.

We would be obliged if any reader would inform us by post-card or telephone who are the makers or agents of the articles mentioned in the following inquiries received since our last issue:

- 197/192. "Zit."
- 193/50. Calla cream.
- 197/190. "A. K. O."
- 194/670. "Analaplast."
- 193/51. Tourocol tablets.
- 193/49. Kenner's throat spray.
- 197/191. White's electric socks.
- 193/21. "Bisol" sticking plaster.
- 194/67. Dr. Pyfus' or Pybus' pastilles.
- 198/3. Ignito Engineering Co.: address.
- 198/16. "Salona," a lotion for dobytch.
- 197/19. Solidified butter-milk for toilet use.
- 192/40. "Melbaline Peroxide Tooth-paste."
- 192/400. "Hingston's Cherry Pectoral Linctus."
- 195/11. Violet powder ("R. M. & Co."); makers.
- 196/23. "Beau Regard" (or "Beau Recard") bath crystals.
- 193/14. Schieldnecht & Co., surgical instrument makers: London agents.
- 191/24. "Baralyte" or "Barolite," for mixing with mortar (? Barytes compound).
- 234/84. Makers of bags of lavender-coloured silk or coarse muslin for packing 2-oz. and 4-oz. lavender flowers.

## INFORMATION SUPPLIED.

During the past week we have answered inquiries as to where the following articles can be obtained, and in many cases we have given the actual makers. The information will be repeated to any other inquirers who send to this Department a stamped and addressed envelope for the purpose.

- "Amami" nail-polish (195/10).
- American crude drugs (importers) (191/652).
- Atomisers (special) (191/28).
- Bottle-filling machines (191/6).
- Burbridge's hot-water bottles (189/42).
- Calmine (196/24).
- Caroline pilules (193/47).
- Cheltine diabetic flour (192/13).
- Crude drugs (first-hand dealers) (191/650).
- Cuticura (189/49).
- "Drummer" brand kola wine (219/14).
- Duripan (193/48).
- "Economic" gaslight post-cards (191/200).
- Eumethol jujubes (192/26).
- "Faucon" cream of tartar (188/74).
- Gelatin (222/38).
- Gould's Tasmanian eucalyptus oil (191/12).
- Guttapercha tissue (222/380).
- Hansen's Danish rennet tablets (189/492).
- Harlan's beauty cup (195/9).
- Horsey's fibre tooth-brushes (189/494).
- Hydrogen peroxide tablets (189/51).
- "Illusion" perfumes (196/39).
- Johnson's American soothing syrup (189/491).
- Laxaline (195/12).
- "Libra" photographic supplies (194/25).
- Liq. delphinine (186/28).
- Morton's specialities (191/20).
- Mugwort (191/654).
- Orange sticks (195/36).
- Origanum oil (191/655).
- Osogen (191/7).
- Pennyroyal oil (191/656).
- Permanganate of potash bulbs (for disinfecting cisterns) (192/19).
- "Primal" hair-dye (193/34).
- Pumice-stone (shaped) (188/23).
- Rhapontica root (191/65).
- Russian and American turpentine (191/651).
- Spongebags (189/495).
- Steedman's soothing-powders (189/493).
- Thermotot (191/201).
- Thompson's corn-silk (188/36).
- "Virilla" toilet-paper (191/60).
- Wicker-covered bottles (190/55).
- Woodward's gripe-water (189/496).
- Wormwood (191/653).
- "Zepto" (189/490).

## PRACTICAL RESULT.

From a Wholesale Dealer in Foreign Specialities:

"We thank you for giving our name to the firm mentioned. We have received an order from them for the article named." (177/17.)

## OBSERVATIONS & REFLECTIONS.

By Xrayser II.

### The Pharmaceutical Society of Ireland

is to be congratulated on the progress that has been attained, particularly during the last decade. Though the area from which members can be drawn is strictly limited and the possibilities correspondingly small, the men at the helm have held on their course, often against great discouragements, and it is to their credit that there exists to-day such a well-organised Society as we now see in Ireland. One could wish that the Society were larger and that the pharmaceutical chemists throughout the country could see it to be their duty to throw in their influence with it, and thus render it fully representative and therefore more powerful than it is at present; but even with its comparatively small membership it has done splendid work, work that will preserve to Ireland a well-trained and cultured race of pharmacists.

### If the Psycho-Therapeutic Society

has its way, and if some of its members and spokesmen are to be believed, the poor druggist is going to be in a really bad way. Dr. Hooker is going to cure the British public by means of magnetic treatment, Dr. Bell by uncooked vegetables varied by more or less frequent doses of treacle (without the brimstone), while Dr. Forbes Winslow does not say what he proposes to use, but he certainly is not going to use drugs. All this is very sad indeed; for if the new cult is going to be universal, pharmacy will resolve itself into a tierce of treacle and a couple of gallons of sea-water! Perhaps there may be a few people who have not bowed the knee to the Baals of magnetism, psychic influence, Christian science, raw wheat and carrots, and such-like amazing beliefs, and who think that there may be some virtue in drugs that have stood the test of centuries. If so, there is still hope for us.

### Between Food and Physic

it is sometimes really difficult to distinguish, but it is a peculiar feature of our times that proprietors of patent medicines so frequently put them forward as belonging to the former rather than the latter class. How to explain the apparent reaction against medicine is somewhat of a puzzle, since proprietary remedies for all sorts of complaints never were so abundant, so much advertised, or so extensively used as at present; and yet on all sides, in all manner of voices, we are assailed by variations of Dr. Forbes Winslow's truly atrocious "parody" of Othello, "the poor old druggist's occupation's gone." It is certainly smart to advertise a drug in a literary paper under the guise of an essay on "Shakespeare and Medicine," but I cannot think it very good policy to begin a medical puff with the exhortation to "throw physic to the dogs," "as Shakespeare says"—a thing, by the way, which we have no evidence that Shakespeare ever did say. Let doctors, who have other strings to their bow, run down medicine if they will, but we who live by it should have the honesty and the courage to speak well of the bridge that carries us. I greatly doubt whether, as a food, phosphoric acid can hold its own against a juicy beefsteak, and in any case I would call a spade a spade; drugs may feed, as food may physic us, but the distinction between them is one that it pays the druggist to keep up.

### Satinwood Dermatitis,

referred to last week, is not the only skin trouble produced by plants, and every pharmacist

must recall cases where his advice has been sought in which the causal agent has been discovered to be a plant. One such case recurs to mind where a client had a small conservatory and the lady members of the family were constantly being attacked by a skin-affection of an eczematous character. Ultimately this was traced to one of the primulas, *P. obconica*, and the offender being promptly ejected the eczema disappeared. It appears that this species contains a saponin-like principle which is a strongly irritant poison. On the homœopathic theory the plant ought to be a cure for eczema, and in point of fact the dispensatories say that it is used in the treatment of this and other skin-troubles, though I have never known it to be prescribed. There are numerous other plants which are very troublesome, as, for example, the common nettle, the formic acid of which is intensely irritating. Then two species of rhus, *R. Toxicodendron* and *R. venenata*, are both said to contain pyrogallic acid, which produces a skin-trouble. Several varieties of narcissus, notably *N. gloriosa* and *N. Grand Monarque*, and at least one daffodil, are known to produce much skin-irritation during the flowering season in the Scilly Isles. So far as I know Grand Monarque has no ill-effects when cultivated further north, as I have grown this bulb for some years and have not observed it causing irritation. The cause of the trouble in Scilly has not been definitely ascertained, but it is known that narcissi contain raphides of calcium oxalate, and these may act as a mechanical irritant.

### Rhubarb Pills

I promised to return to, and I "implement my promise," as they say across the Border. The letters and papers of the reign of Henry VIII. in the Record series of State Papers have an interesting reference to the pill. Francis I. of France, writing under date March 21, 1524 (the year before Pavia), to Anne de Montmorency, Marshal of France, says that "Madame" (Louise of Savoy) is "tres fort tormentée de fiebre continue," and five days later reports her out of danger and on the way to perfect health owing to the "bonne operation" of nine "pillules de Reubarbe." These were probably those of the younger Mesue, whose formula was included in the Augustan (Augsburg) Dispensatory of 1601, and afterwards in the first London Pharmacopœia, and may therefore be considered the origin of our present Pil. Rhei Co., though it has little resemblance to it. It was composed of rhubarb, citron, myrabolans, lozenges of diarrhodon, liquorice-juice, juice of wormwood, mastic, seeds of smallage and fennel, species of hiera picra; with fennel-juice and honey sufficient to make a mass. This pill was omitted from the next Pharmacopœia, and did not reappear until 1721, in a much simpler form, containing only rhubarb, resin of jalap, tartar of vitriol, oil of nutmeg, and thin extract of gentian to make a mass. This, too, was subsequently rejected, and the next appearance of the pill is in the Edinburgh Pharmacopœia, some time before 1810, in the following form: Rhubarb 1 oz., Socotrine aloes 6 dr., myrrh  $\frac{1}{2}$  oz., oil of peppermint  $\frac{1}{2}$  dr., syrup of orange-peel q.s. In 1836 this was adopted in the London Pharmacopœia, with the substitution of oil of caraway for oil of peppermint. The earliest use of rhubarb was rather as an astringent than a purgative, and to reduce its purgative action it was toasted before being powdered.

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## Editorial Articles.

### The Autumn Session.

THE Session of Parliament which was adjourned in August will be resumed on Tuesday, October 24, when the National Insurance Bill will be further considered. There is every indication that the few weeks intervening between now and the prorogation of Parliament at Christmas will be of the most eventful character and fraught with the utmost importance. When the Bill is again before the House, that part of it which relates to the Approved Societies, of which so much has been heard in the course of the debates, will be discussed. The Chancellor of the Exchequer has made it perfectly clear that it is not the intention of the Government to abandon any part of the Bill, so that it is all the more difficult to see how the Government are to conclude the consideration of the remaining sixty-two pages in the Lower Chamber and send it to the Upper House in sufficient time to enable it to be completed before the eve of the adjournment for the Christmas holidays. It is the hope of the Government—and particularly of the Home Secretary—that there may be sufficient time in which to pass the Shops Bill, which has been for so long a period before the House and the country, and in regard to which Mr. Churchill quite recently expressed his willingness, with the approval of the House, to drop the Sunday clauses. Another Bill which the Government had hoped to at any rate introduce before the end of the year is one dealing with the report of the Departmental Committee which went into the whole question of bankruptcy law reform. A Bill has already been drafted at the Board of Trade, and only the opportunity is needed to introduce it in the House of Commons. The Finance Bill of the year has still to be disposed of, and among other measures which must be passed before the prorogation is the Naval Prize Bill, which raises the whole question of the Declaration of London. In regard to the Finance Bill, it is expected that the Government will consent to the introduction of the special clause which was tabled at an earlier period of the year by Mr. W. S. Glyn-Jones, Mr. J. F. L. Brunner, and Mr. R. Winfrey, relating to the sale by wholesale druggists of rectified spirits. It may be remembered that it was only the result of an accident that this did not engage the attention of Parliament when the Revenue Bill was before that assembly. Another Bill which it may be expected will be pushed forward by its promoters should the opportunity occur is the Poisons and Pharmacy Bill (Ireland), which was introduced towards the close of the first part of the Session by Captain Craig, M.P. The hon. and gallant member originally fixed the second reading for October 2, not knowing, of course, at the time that Parliament would not be called together again until the 24th. It has no chance whatever of being passed into law during the present year, but the Bill has been printed, and those interested in it have taken precautions to ensure that their views will be considered when the proper time arrives. As to that, members of the Pharmaceutical Society of

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THE CHEMIST AND DRUGGIST, 42 CANNON STREET, LONDON, E.C.

Ireland must ere long come to a decision as to whether or not they will accept the conditions for company trading in pharmacy, which are working smoothly in Great Britain. There appears to be no disposition at present to accept the proposed alteration as regards apprenticeship, the principle of the Acts being training by and under a pharmaceutical chemist actually in practice as such. It may not be impossible to carry out this principle in some pharmacies owned by companies; but Captain Craig's clause dealing with the subject practically ignores the principle, and provides none of those safeguards which it has been the aim of the authorities to ensure. It may also be observed that the Bill proposes to give the Society power to institute a curriculum and reciprocity, which it does not require for the former, and does not ask for the latter. Chemists and druggists in the North of Ireland have discussed the Bill, and have referred it to a committee, the point chiefly considered being the conditions upon which chemists and druggists and registered druggists are admitted to the Licence examination. Fresh powers are not required for this, which is a matter of by-law at present.

### "Pharmaceutical Formulas."

THE eighth edition of this popular volume of THE CHEMIST AND DRUGGIST series of books for chemists will be published early next week, and our publisher will fill in rotation the large number of orders in hand. The first edition of "Pharmaceutical Formulas" was published in April 1898, and it met with such favour that two others were called for in May and September following. The late Dr. John Attfield, F.R.S., was one of the first to commend the utility of the book, when he wrote to us as follows:

"Tr. Ferri Muriatis."—This morning, after consulting several books, I found exactly what I wanted in yours. I must adopt the plan of looking into "Pharmaceutical Formulas" first.

The first edition was a volume of 662 pages. The eighth is 1,042—i.e., the same as the seventh—but many changes have been carried out without departing from the design and purpose of the book. We have had the curiosity to count the emendations apart from new formulas and index alterations, and find that there are four hundred and fifty alterations and annotations in the text, while new formulas alone number more than four hundred. Special attention has been given to insect and other pests which infect plants in fields and gardens. The chapter of formulas on this subject has been rewritten, and in the appendix notes are printed in regard to the natural history of the pests, with references to formulas for remedial agents. The purpose of these notes and formulas is to give material help to pharmacists in cultivating business in the remedies. Another new feature is a monograph with formulas on modern skin-creams, in which a large and increasing trade is now done. These are supplementary to the special chapter on toilet-preparations, but they bring together the methods employed in a department wherein there has been much specialising lately, and great ingenuity in presentation of the results to the public. In the perfumery chapter we include notes by Mr. E. J. Parry, B.Sc., on the composition, properties, and blending of synthetic perfumes, which should be of service to compounders. Since the seventh edition was published in 1903 the Board of Customs and Excise has intimated that it is not necessary to print in full the words "Pharmaceutical Formulas" on the labels of "known, admitted, and approved remedies" which are prepared according to recipes in this book; all that is required is to use the letters "P.F." on the labels of the medicines, with the

number of the formula if there be one—e.g., "Hay-fever Ointment, P.F.," and "Indigestion Cure, P.F. 76." The chapters containing such formulas have also been added to. The revision has given an opportunity of collating galenical formulas of an official or semi-official nature with the revised forms of these, such as the preparations of the French and German Pharmacopœias, the third edition of the "Canadian Pharmaceutical Formulary," and a new edition of the "Formulary" prepared by the Glasgow and West of Scotland Pharmaceutical Association. In other directions revision is apparent, and the volume should be additionally useful to chemists and druggists who want a good all-round recipe-book dealing with all the preparations which they handle. The greater part of the book is devoted to preparations of a non-medicinal nature, yet all the formulas are for articles which chemists are asked for at some time; in fact, the origin of "Pharmaceutical Formulas" was the idea of giving in it WHAT CHEMISTS WANT, as expressed in queries from thousands of them, and the idea has not been lost sight of in the revision. The price of the eighth edition remains the same as the last, 10s. net, or free by post from our office at 10s. 6d. It can also be obtained from wholesale and sundries houses at the published price, and a preliminary list of those who stock it will be given in our next issue.

### The Straits Opium Monopoly.

THE first annual report on the working of the Straits Settlement Government Monopolies Department for the year 1910, by Mr. F. M. Baddeley, Superintendent of the Department, is an instructive document. It will be remembered that the Straits Opium Commission, in its report dated June 15, 1908, recommended that the system of farming the opium revenue be abolished, and a Government monopoly substituted. This recommendation was carried into effect in Singapore, Penang, and Malacca from January 1, 1910; the Johore farm and the coast farms of Selangor, Negri Sembilan, and Perak, in the Federated Malay States, came to an end at the same time. These districts are now all supplied from one factory at Singapore, that originally established in Penang having been closed in May. In the Straits Settlements, only Labuan, and in the Federated Malay States, only Kelantan and Trengganu, are still outside the monopoly system. The generally high prices of Indian opium and the great fluctuations in price made the finance of the new departure difficult. It led the Department to buy Persian opium, as being cheaper than Benares, and eventually to fix the proportions in chandu at 70 per cent. Indian and 30 per cent. Persian. It also led the Department to raise the retail price by about 45 per cent., but this alteration, while financially successful, has not led to any material diminution in consumption. There was a temporary falling-off, but the quantities sold soon recovered, so that the sales in December were the largest of the year in each of the three Settlements, though prices had been raised in May. So small is the effect in curtailing the consumption of opium of a substantial increase of its cost among a prosperous community like that of the Straits, that two other measures were adopted, which will meet with the approval of the Society for the Suppression of the Opium Trade. The report states that "in the farmers' time there were two kinds of licences, a retail-shop licence and a smoking-shop licence," and that many of the former "were in fact branches of the farm, managed by servants of the farm." The Government, while maintaining this distinction, "abolished branch shops and did not hold any

interest in any licensed shop." A yet more valuable reform makes it an offence to sell or re-prepare opium-dross, which was regularly bought for the purpose by the farmers. "The dross bought for the Department is periodically destroyed in the municipal incinerators, none of it being used again in any shape or form."

An Appendix gives the amount of seizures made during the year in the three Settlements, and contains some interesting particulars of the more important of these. The activity of the Department and its success in obtaining convictions have been remarkable. In Singapore 13,321 tahils of smuggled chandu were discovered, as against 5,656 and 4,936 tahils in 1906 and 1907, according to a witness before the Straits Opium Commission. Several thousand bottles of cocaine were seized, and all but three bore the name of a German firm. In commenting on the above report "The Friend of China," states that "while admiring the zeal with which some restrictions have been enforced, we cannot but deplore the energy thrown into the successful management of the trade in opium and intoxicants. It is deplorable that in these prosperous British Colonies a staff of 860 persons, including thirteen Europeans, should be employed in providing for the vices of the population, and in extracting from them more than half the revenue by which the Colonies are governed."

### The Benevolent Fund.

Four annuitants are to be elected on the Benevolent Fund of the Pharmaceutical Society on December 12. The Council have decided to place the following candidates before the subscribers to the fund: Frederick Brooks (75), St. Leonards; Robert Dawson (72), Manchester; Samuel Daymond (64), Camelford; Ellen Jones (77), Newington Green; Jane A. Pimm (59), Chelsea; Elizabeth Stokes (76), Liverpool; and Robert G. Wilton (75), Manchester. It will be observed that of these candidates five are eligible for National Old-age Pensions, and the effect of placing them on the Benevolent Fund will be to relieve the State of its responsibility in this matter. It is possible that the Benevolent Fund Committee have considered this, and have resolved to take the line of least resistance by continuing the old scheme so long as money comes in freely. It would, however, be further evidence of the care with which the fund is administered if some revised scheme were put forward by which the amount of the pension was adjusted so as to ensure that eligible persons obtain the maximum State contribution. This would be a less wasteful method of granting relief, and would enable the fund to grant pensions to suitable persons of younger age.

### Poisonous Substances.

Our note of September 9 on the Orders in Council regarding the sale of poisonous substances began: "It is desirable to remind retailers in Great Britain and Ireland that after Saturday, September 30, new regulations come into force in regard to the sale," etc., naming the articles. As a matter of fact the Orders do not apply to Ireland at all. The new regulations requiring bottles distinguishable by touch for the poisonous substances named in the Act (sulphuric, nitric, and hydrochloric acids and soluble oxalates) and the additional words "Not to be taken" for the label apply solely to Great Britain, as also does the Order adding liquid ammonia to the list of substances which can only be sold according to Section 5 of the Poisons and Pharmacy Act, 1908, and regulations made thereunder. If the conditions of sale in Ireland are to be the same as in Great Britain (which is desirable) this can only be done by the Irish Privy Council. We may,

however, recall the fact that in Ireland there are no regulations similar to those in force in Great Britain as regards special bottles for poisons scheduled under the Poisons Act, 1870, and there is no provision in that Act or in the Pharmacy Acts (Ireland) for making such regulations. Those of Great Britain are made under Section 2 of the Pharmacy Act, 1868, which has no parallel in Ireland.

### Sandalwood Oil and Capsules.

The fact that sandalwood oil is to-day about 20 per cent. dearer than it was at the beginning of the year has encouraged adulteration to a considerable extent. The manufacture of santalol on the Continent results in the production of a considerable amount of the sandal-oil residues, which contain very little Santalol. This is being employed in the adulteration of sandalwood oil; but the principal adulterant now used is the so-called West Indian sandal oil, which is not a sandalwood oil at all. The chief victims of this form of adulteration are our Australian Colonies. Capsules of the oil are being sent there at prices barely covering the cost of the oil, and several samples recently examined contained oil having the following characters:

Sp. gr., 0.962 to 0.966.

Optical rotation, +8° to -4°.

Insoluble in 10 volumes of 70-per-cent. alcohol.

"Santalol" value, 66-74 per cent.

We have had complaints from more than one quarter recently about the impurity of capsule contents, also in regard to the volume. This is not the first warning note we have printed, and we hope that some buyers, large and small, will endorse it by prompt action when necessary.

### Views on Poisons.

Occasionally there comes on us a flood of public comment upon poisons, which shows how varied opinions are regarding their sale. Thus counsel who defended at the Old Bailey on October 14 a woman who was found guilty of manslaughter by giving her baby laudanum, complained of

"the facility with which the prisoner was able to obtain the poison, remarking that it was a strange thing that the prisoner should be standing in the dock, while the chemist, who, keeping within the limits of the law, sold laudanum with the simple word 'Poison' upon the bottle, and no instructions as to the minimum dose, and little or no inquiry as to its use, had nothing done to him."

There is nothing strange here; the chemist fulfilled the law, and there was no offence. A correspondent of a morning paper, "35 Years a Chemist," apparently refers to this case when he writes about

"the inherent faults of our poison laws. All that the Privy Council do is to penalise the chemist or seller, and advise the use of poison cupboards, and labels, and bottles of a shape easily distinguishable by touch. Most of these safeguards were in use by chemists years before the Privy Council noticed the matter."

He proceeds to argue that purchasers should be made responsible for the poisons that they purchase. So they are in common law. It will also be noted that a chemists' Association wants the Privy Council to authorise the use of the word "Poison" instead of "Poisonous" on poisonous substances. The officers of the Council should chuckle. "Poison" was their word in the Bill, but it was altered to "Poisonous" through pharmaceutical solicitation, and nothing short of a new Act can change it now.

### Unofficial Drug-standards.

We remarked a fortnight ago that "no greater disaster could happen to the drug-trade than to be legally bound to standards set forth in private publications, however useful they may be as books of reference." What better

proof of the necessity for this observation could be had than the emulsion of magnesia prosecution under the Sale of Food and Drugs Acts reported on page 602? Had the prosecution succeeded in proving their case, the next step would probably have been an assertion that "emulsion of magnesia" means a preparation made according to the "British Pharmaceutical Codex." Now, it happens that before this was published Magnesia Emulsion had been put on the market by Messrs. Hearon, Squire & Francis, Ltd., and is still manufactured and sold by The British Drug Houses, Ltd. According to practice in the drug-trade the standard for a preparation which goes by a particular name is the preparation to which the name is first applied. Perhaps there is as little resemblance between it and the B.P. Codex preparation (also called "Magnesia Milk") as there is between it and Phillips's "Milk of Magnesia," which is additional reason for caution in accepting the book as authoritative like the B.P. on questions of standards. It does not appear that the Middlesex County Council actually did this; indeed, it is not unreasonable to suppose that there was something of a sportive nature in last week's case, for the Council has sufficient pharmaceutical experience and knowledge at its command to learn what confusion and trouble would arise in the drug-trade if all local authorities throughout the country began to buy for analysis medicines made according to this or that book, not the British Pharmacopœia.

## Turin Exhibition Awards.

THROUGH the courtesy of the Board of Trade (Exhibitions Branch) we are able to publish a list of the awards to exhibitors in the drug, chemical, and allied sections at the Turin International Exhibition, which are of interest to our readers. At the time of going to press the list had not final official confirmation, but it is not likely that there will be any material alterations.

**MEASURING INSTRUMENTS AND SCIENTIFIC APPARATUS.**—Classes 6, 7, and 8.—*Grand Prix*: G. Kent, Ltd.; W. F. Stanley & Co., Ltd. *Diploma of Honour*: Baird & Tatlock (London), Ltd.; L. Oertling; Synchrotime Co. *Gold Medal*: W. & T. Avery, Ltd.; Francis Darton & Co. Classes 9, 10, and 11.—*Grand Prix*: R. & J. Beck, Ltd.; Chance Bros. & Co., Ltd.; Adam Hilger, Ltd.; Negretti & Zambra; J. Pillischer; Reynolds & Branson; W. F. Stanley & Co., Ltd. *Diploma of Honour*: Casella & Co. *Gold Medal*: Baird & Tatlock (London), Ltd.; Francis Darton & Co.; William Gowland, Ltd.; John J. Griffin & Sons, Ltd.; Townson & Mercer.

**METEOROLOGICAL INSTRUMENTS.**—*Grand Prix*: Casella & Co.; Francis Darton & Co.; Negretti & Zambra. *Gold Medal*: J. Pillischer; W. F. Stanley & Co., Ltd.

**SURGICAL AND ANTHROPOLOGICAL INSTRUMENTS.**—*Grand Prix*: Baird & Tatlock (London), Ltd.; Burroughs Wellcome & Co.; William Gowland, Ltd.; Adam Hilger, Ltd.; J. Pillischer.

**PHOTOGRAPHIC APPARATUS AND MATERIAL.**—*Grand Prix*: R. & J. Beck, Ltd.; A. Boake, Roberts & Co., Ltd.; Burroughs Wellcome & Co.; Houghtons, Ltd.; Thos. Illingworth & Co.; The Platinotype Co.; Thornton-Pickard Manufacturing Co., Ltd.; Wellington & Ward; Wratten & Wainwright, Ltd. *Diploma of Honour*: Raines & Co. *Gold Medal*: John J. Griffin & Sons, Ltd.; Reynolds & Branson.

**APPLIED PHOTOGRAPHY.**—*Grand Prix*: Wratten & Wainwright, Ltd. *Gold Medal*: The Platinotype Co. *Silver Medal*: Raines & Co.

**PROCESS WORK.**—*Grand Prix*: The Platinotype Co. *Diploma of Honour*: Wratten & Wainwright, Ltd. *Gold Medal*: Thos. Illingworth & Co., Ltd.; Raines & Co. *Silver Medal*: A. Boake, Roberts & Co., Ltd.

**ELECTRO-CHEMISTRY.**—Class 32.—*Grand Prix*: Ozonair, Ltd. *Diploma of Honour*: John J. Griffin & Sons, Ltd. Class 33.—*Grand Prix*: Nalder Bros. & Thompson, Ltd.;

R. W. Paul. *Gold Medal*: John J. Griffin & Sons, Ltd.; The Reason Manufacturing Co., Ltd.

**ROAD TRANSPORT.**—*Grand Prix*: Burroughs Wellcome & Co.; Dunlop Rubber Co., Ltd.

**SANITATION AND PROVISIONING.**—*Diploma of Honour*: Burroughs Wellcome & Co. *Gold Medal*: Aëraturs, Ltd.; Ozonair, Ltd. *Silver Medal*: A. Boake, Roberts & Co., Ltd.

**AERIAL NAVIGATION.**—*Gold Medal*: Burroughs Wellcome & Co.

**MOUNTAINEERING.**—*Gold Medal*: Burroughs Wellcome & Co.

**TOWN IMPROVEMENTS AND SANITARY ENGINEERING.**—*Grand Prix*: Ozonair, Ltd. *Gold Medal*: Aëraturs, Ltd. *Silver Medal*: A. Boake, Roberts & Co., Ltd.

**GLASS, CHINA, &C.**—*Grand Prix*: Doulton & Co., Ltd. *Gold Medal*: Joseph Bourne & Son; Kilner Bros., Ltd.

**ARTICLES FOR DOMESTIC USE.**—*Grand Prix*: Ozonair, Ltd. *Gold Medal*: Aëraturs, Ltd.

**THEATRICAL ADJUNCTS AND APPLIANCES.**—*Gold Medal*: Burroughs Wellcome & Co.

**ECONOMICS OF FORESTRY, &C.**—*Diploma of Honour*: Burroughs Wellcome & Co.

**HUNTING.**—*Grand Prix*: Aëraturs, Ltd.; British Cyanides Co.; Burroughs Wellcome & Co.

**METHODS AND SYSTEMS OF MANURING.**—*Grand Prix*: Liebig's Extract of Meat Co., Ltd.

**CULTIVATION OF THE VINE.**—*Gold Medal*: A. Boake, Roberts & Co., Ltd.

**PRODUCTS OF FARMING ON LARGE SCALE.**—*Grand Prix*: Burroughs Wellcome & Co.

**FARINACEOUS FOODS.**—*Grand Prix*: Mellin's Food, Ltd.

**CONFECTIONERY.**—*Grand Prix*: J. S. Fry & Sons, Ltd. *Diploma of Honour*: Mellin's Food, Ltd.

**MEAT, FISH, VEGETABLES, AND FRUIT.**—*Grand Prix*: Liebig's Extract of Meat Co., Ltd.; Ozonair, Ltd. *Diploma of Honour*: Tooth's Extract of Meat Co. *Gold Medal*: Kilner Bros.

**FATTY SUBSTANCES, MILK PRODUCTS, &C.**—*Gold Medal*: Aëraturs, Ltd.; Mellin's Food, Ltd.

**WINES, VINEGARS, &C.**—*Gold Medal*: Deans, Logan & Co., Ltd. *Silver Medal*: Aëraturs, Ltd.; A. Boake, Roberts & Co., Ltd.

**SYRUPS AND LIQUEURS.**—*Diploma of Honour*: A. Boake, Roberts & Co., Ltd.; Deans, Logan & Co., Ltd.; Kilner Bros., Ltd.

**BEVERAGES.**—*Grand Prix*: Aëraturs, Ltd. *Diploma of Honour*: Kilner Bros., Ltd.; Ozonair, Ltd. *Gold Medal*: A. Boake, Roberts & Co., Ltd.

**METALLURGICAL PLANT.**—*Grand Prix*: Cassel Cyanide Co., Ltd.; Castner-Kellner Alkali Co., Ltd.; Mond Nickel Co., Ltd.; W. F. Stanley & Co., Ltd.; Thermal Syndicate, Ltd.

**ELECTROPLATING AND WORKING OF METALS.**—*Grand Prix*: Mond Nickel Co., Ltd.

**RAW MATERIALS OF THE CERAMIC INDUSTRIES.**—*Diploma of Merit*: Society of Apothecaries.

**CHEMICAL APPARATUS AND PRODUCTS.**—*Grand Prix*: Baird & Tatlock (London), Ltd.; Borax Consolidated, Ltd.; The British Drug Houses, Ltd.; Brunner, Mond & Co., Ltd.; Joseph Crosfield & Sons, Ltd.; Fletcher, Russell & Co., Ltd.; Fraser & Co., Ltd.; Gas Light and Coke Co.; John J. Griffin & Sons, Ltd.; Adam Hilger, Ltd.; Johnson, Matthey & Co., Ltd.; Mond Nickel Co., Ltd.; L. Oberling; Royal Commission Physical Laboratory; Royal Commission Chemical Laboratory; Silica Syndicate, Ltd.; Townson & Mercer, Ltd.; United Alkali Co., Ltd.; Wellcome Chemical Research Laboratories. *Diploma of Honour*: Aëraturs, Ltd.; International Salt Co., Ltd.; T. Morson & Son; South Metropolitan Gas Co.; Thermal Syndicate, Ltd. *Gold Medal*: A. Boake, Roberts & Co., Ltd.; Tintometer, Ltd. *Silver Medal*: Ozonair, Ltd.; Ernest Scott & Co., Ltd.

**PURIFICATION OF WASTE PRODUCTS.**—*Diploma of Honour*: Aëraturs, Ltd.

**DESTRUCTIVE DISTILLATION.**—*Grand Prix*: British Cyanides Co., Ltd.; Gas Light and Coke Co.; Read, Holliday & Sons, Ltd.; Scottish Mineral Oil Association. *Diploma of Honour*: Wm. Pearson, Ltd. *Gold Medal*: Assam Oil Co., Ltd.; Williams Bros. & Co. *Silver Medal*: Whalleys Sanitary Fluid Co.

SOAPS, CANDLES, AND LUBRICATING OILS.—*Grand Prix*: Burmah Oil Co., Ltd.; F. S. Cleaver & Sons, Ltd.; E. Cook & Co., Ltd.; J. Crosfield & Sons, Ltd.; Liebig's Extract of Meat Co., Ltd.; Price's Patent Candle Co., Ltd.; Scottish Mineral Oil Association; C. C. Wakefield & Co. *Gold Medal*: Ernest Scott & Co., Ltd.

COLOURING-MATTERS.—*Grand Prix*: Read, Holliday & Sons, Ltd. *Silver Medal*: Williams Bros. & Co.

PHARMACEUTICAL PRODUCTS.—*Grand Prix*: A. Boake, Roberts & Co., Ltd.; The British Drug Houses, Ltd.; Burroughs Wellcome & Co.; E. Cook & Co., Ltd.; Howards & Sons, Ltd.; William Martindale; T. Morson & Son; Wellcome Physiological Research Laboratories; Wellcome Chemical Research Laboratories; Wright, Layman & Umney (1909), Ltd. *Diploma of Honour*: Aëraturs, Ltd.; Birmingham Dental Manufacturing Co., Ltd.; F. S. Cleaver & Sons, Ltd.

CHEMICAL MANURES.—*Grand Prix*: Liebig's Extract of Meat Co., Ltd.

ESSENTIAL OILS AND PERFUMES.—*Hors Concours*: J. Gosnell & Co., Ltd. *Grand Prix*: F. S. Cleaver & Sons, Ltd.; E. Cook & Co., Ltd.; Joseph Crosfield & Sons, Ltd.; Erasmic Co., Ltd.; Price's Patent Candle Co., Ltd.; Wright, Layman & Umney (1909), Ltd. *Diploma of Honour*: A. Boake, Roberts & Co., Ltd. *Gold Medal*: The British Drug Houses, Ltd.; Rosmarine Manufacturing Co. *Silver Medal*: Burroughs Wellcome & Co.

SADDLERY, BAGS, MOROCCO WORK.—*Grand Prix*: Burroughs Wellcome & Co.

INDIARUBBER AND GUTTAPERCHA.—*Grand Prix*: Leyland and Birmingham Rubber Co., Ltd.

PUBLIC AND PRIVATE BENEVOLENCE.—*Grand Prix*: Wellcome Physiological Research Laboratories. *Diploma of Honour*: Burroughs Wellcome & Co.

## POISONING FATALITIES.

OF the ten fatalities from poison which we report this week, four were accidental, and in six cases the poison was taken with suicidal intent.

*Carbolic Acid*.—The verdict of the jury at an inquest on the body of Dr. Savory, Abbots Bromley, near Uttoxeter, on October 14, was that he committed suicide with carbolic acid while of unsound mind.—The Barking Coroner on October 14 held an inquest to determine the cause of death of A. H. R. Burroughs (36), a stockbroker, who accidentally drank some carbolic acid in mistake for wine. The affair took place on a vessel lying off Lawes Factory, Barking, and deceased was given the acid by the captain of the vessel, who mistook it for port wine. Bottles of carbolic acid and port wine were kept together in a cupboard, and supposed to be distinguishable by the colour of the seals, which, however, on this occasion had been changed. The captain said that carbolic acid was obtained in crystals, and that he made it into solution and bottled it for use.—Caroline Webb (50), Birchmoor, near Polesworth, died from the same poison which she took while of unsound mind.

*Chloral Hydrate*.—Mr. Tom Pearson (55), who has been for fourteen years dispenser at the Chesterfield Hospital, died on October 11 from an overdose of chloral hydrate, taken to procure sleep.

*Laudanum*.—An overdose of laudanum caused the death at Corsham of John Simmons. At the inquest on October 13 it was stated that deceased took laudanum to alleviate pain, and a bottle was found on the dressing-table of his bedroom, bearing the name of a Bristol chemist.—Mary Booth, Chorlton-on-Mersey, Manchester, was discovered lying very ill in a field near Dunham Park, Altrincham, on October 15. She was found to be suffering from laudanum-poisoning, and death took place shortly after.—An inquest was held on October 14 on the body of John David Coleman, chemist and druggist, City Road, Cardiff, who died through inadvertently taking an overdose of laudanum. Four years ago deceased had a paralytic stroke, and had been in the habit since of taking drugs for the purpose of inducing sleep. Mr. A. W. J. Evans, chemist and druggist, of Salisbury Road, said he had supplied him on several occasions with laudanum, chloral hydrate, and other drugs. Deceased always sent for the articles by note, and witness had supplied him in the same way as he would any other chemist who was out of stock. Dr. G. R. Sparrow, who was called in to the deceased, said he found him suffering from an overdose of opium. He recovered from that, but meningitis set in, and caused death. The Coroner (Mr. W. L. Yorath) said Mr. Evans had acted in a perfectly straightforward manner, but it was a

dangerous thing that any chemist should have such power in his hands, that he could supply the public with laudanum and other stuff in any quantity without restriction. He thought there should be legislation to put a stop to this very grave danger.

*Hydrocyanic Acid*.—At Bristol, Fred Lewis (50), dispenser at the Shepherds Medical Institute, Bristol, committed suicide by taking prussic acid. He was found on the dispensary floor with bottles of poison near him. It was stated at the inquest that he had been worrying about the effect the National Insurance Bill would have on his position.

*Nicotine*.—Agnes Britnell (48), Slough, committed suicide with nicotine during a fit of temporary insanity. At the inquest it was stated that the nicotine was contained in a greenhouse fumigating liquid, the source of which could not be traced.

*Phosphorus*.—Hannah Slader (52) died in the Royal Devon and Exeter Hospital, Exeter, on October 10, as the result of eating phosphorus paste. Mr. Walter Morris, of Messrs. Stone & Son, chemists, Fore Street, Exeter, said they could not trace deceased's purchase of the phosphorus. It is very largely used for killing rats, mice, beetles, etc., and is not a poison within the meaning of the Pharmacy Act.

## TRADE-MARKS.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(From the "Trade-marks Journal," September 27, 1911.)

"VI-FORCE"; for food substances (42). By Casein, Ltd., Culvert Works, Sheepcote Lane, Battersea, S.W. 335,606.

"SALVINE DENTIFRICE," and label design; for dentifrices (48). By Dr. Charles Rooke, Ltd., Burley Road, Leeds. 335,595.

"NELOT"; for hair-preparations (48). By Nellie George, 46 Hanover Flats, Thomas Street, London, W. 335,628.

"GRONA" and "SAVOIR"; for toilet-soap (48). By Scrubb & Co., Ltd., Guildford Street, London, S.E. 335,757/8.

"CORNEPOLI"; for hair-brushes, etc. (50). By Mason Pearson, 4-7 Royal Victor Place, London. 335,963.

(From the "Trade-marks Journal," October 4, 1911.)

"SUNRISE," "W. R. CO., LTD.," and device of same; for acid phosphate of calcium (1). By Weaver Refining Co., Ltd., Acton Bridge, Northwich. 335,323.

"PALLASAN"; for pharmaceutical products (1). By Kalle & Co., 23 Rheinstrasse, Biebrich-on-Rhine. 335,731.

"SEZON," encircled with the words "SPRING, SUMMER, AUTUMN, WINTER"; for chemicals (2). By Raydient Manufacturing Co., 8 Eldon Square, Newcastle-on-Tyne. 335,799.

Label device, including letters "BIG G"; for a medicine (3). By Evans Chemical Co., 230 Walnut Street, Cincinnati, U.S.A. 329,728.

"L. GARNIER" and device of globe surmounted by cross and stars; for elixirs (3). By L. J. Deschaux-Beaume, 55 Calle de Smith, Tarragona, Spain. 333,436.

"BRYNITE"; for medicinal chemicals (3). By P. M. Short, 1 Deronda Road, Herne Hill, London, S.E. 334,299.

"H H H" in circle, surmounted by two-headed dragon; for medicinal preparations (3). By A. Hommel, Am Wallweg, Hanau by Frankfurt. 334,485.

"GASTROUBE"; for a medicine (3). By Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C. 335,801.

"LITHOSALUS"; for a granular effervescent medicine (3). By Symes & Co., Ltd., 14 Hardman Street, Liverpool. 335,822.

"MOLOSAN"; for a local anæsthetic (3). By H. L. Waugh, 51d New Briggate, Leeds. 335,916.

"SORALIA"; for medicines (3). By Sam T. Shaw, 73 James Street, Golear, Yorks. 335,918.

"ARGONITE"; for all goods (4, 8, and 50). By Argonite Non-Inflammable Celluloid Co., Ltd., 1 Walbrook, London, E.C. 331,330/1/3.

"JARNIA"; for photographic apparatus (8). By J. Arnold, 6 Brownwood Park, London, N. 335,412.

"RESPOZO"; for inhalers (11). By W. H. Cadman, 8 High Holborn, London, W.C. 335,390.

## PERSONALITIES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

COUNCILLOR C. E. FOX, J.P., Ph.C. (W. Fox & Sons), Mayor of Bethnal Green, is to be entertained by his Council at a banquet at the Holborn Restaurant on November 14.

MR. N. H. MARTIN, Ph.C. (Brady & Martin, Ltd.), a former churchwarden of St. Nicholas Cathedral, Newcastle, has offered to defray the cost of an oak case for the chancel organ, in memory of Mrs. Martin.

MR. AND MRS. JAMES FERNIE, of Bethlehem, Orange Free State Colony, sailed on Saturday, October 14, by the s.s. *Umzumbi* from Southampton on their return journey, after a very pleasant holiday at home.

MR. M. A. J. NOBLE, general representative in India for Messrs. Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C., left London by the s.s. *Morea* for Bombay for the Delhi Durbar.

MR. A. SIDNEY CAMPKIN, chemist and druggist, and Mr. Richard Sturton, chemist and druggist, have been appointed Justices to exercise within the town of Cambridge the powers conferred by the Lunacy Act, 1890.

MR. R. J. H. DAY, Hon. Secretary of the Dewsbury Chemists' Association, lectured on "Intellectual Dynamite" to the members of the local Literary and Debating Society on October 13. It was mainly to the shattering of prejudice that Mr. Day directed his mental explosive.

MR. W. J. BARNES, chemist and druggist, 52 Biggin Street, has been appointed by the Dover Town Council as one of its representatives at the Courts of Brotherhood and Guestling of the Cinque Ports. Mr. Barnes has also been appointed a Justice to exercise within the Borough the powers conferred by the Lunacy Act, 1890.

ALDERMAN H. H. POLLARD, J.P., chemist, 168 High Street, Ryde, has retired from business in favour of his son, Mr. E. W. Pollard, Ph.C., B.Sc. Alderman Pollard is a native of Thetford, Norfolk, where he was born on



ALDERMAN H. H. POLLARD.

February 15, 1836. He is the son of a Wesleyan minister and was educated at Kingswood, where he did so well that a University career seemed the natural continuation of his education, but as a Dissenter he was barred from this. He was therefore apprenticed to his brother, a chemist at Nailsea, Bristol, subsequently extending his experience in situations in Nottingham, Staffordshire, London, Lincolnshire, Northampton, Dorking, and Redhill. He started in business in Ryde in 1867, and became one of the best known men in the Island. He has taken an active part in the educational, municipal, political, religious, and social life of Ryde. For six years he was a member of the School Board, for fifteen years he was on the Town Council, he has been a Justice of the Peace since 1894, and an Alderman of the County Council since 1898. He is an old Wesleyan circuit steward, and has made it a practice to walk to Bembridge Chapel to officiate on Sundays. Mr. Pollard has a family of clever sons and daughters. His eldest son, who was accidentally drowned while bathing at Dover in June 1896, was a B.Sc. and D.Sc. of London University and graduated as B.A. Oxford from Christchurch in 1890. Mr. A. F. Pollard, the second son, is a Jesus College man and a Fellow of All Souls there. He was an assistant editor of the "National Dictionary of Biography," and is at present Professor of Constitutional History in London University. The third son is Mr. E. W. Pollard, who was at the "Square" in 1899-1900. He had passed the Minor before going there, and obtained his Major certificate in April 1900. He was the silver medallist in the advanced section in botany,

and subsequently took B.Sc.Lond. Of Mr. Pollard's four daughters, two took B.A.Lond. (the youngest is dead), one is an associate of the Royal College of Music, and the fourth is engaged in India in connection with the work of the Zenana Mission. Mr. Pollard was for thirty-five years a Divisional Secretary of the Pharmaceutical Society. He is a hale and hearty man, clever with tongue and pen, and all who know him wish him a happy retirement.

## Practical Notes and Formulae.

### Potassium Cyanide as a Larvicide.

PROFESSOR RONALD ROSS AND MR. E. S. EDIE, in a communication to the "British Medical Journal," state that they have found potassium cyanide far the best poison for killing the larvæ of mosquitos. The solution (1-300,000) kills in a few hours. The method of using is to make potassium cyanide into pills with floating soap and some warning colouring-matter, each pill containing  $\frac{1}{2}$  grain of the poison. The pills are floated on the surface of water. A caution is appended as to the careless use of these "pills."

### Deodorising Perspiration.

THE following formulæ for powders and a lotion suitable for chemists' sale are given in the "Bulletin of Pharmacy":

- |                |     |     |     |         |
|----------------|-----|-----|-----|---------|
| 1. Zinc oleate | ... | ... | ... | 4 parts |
| Boric acid     | ... | ... | ... | 3 parts |

Mix. Keep the surface covered with the powder.

- |                             |     |       |
|-----------------------------|-----|-------|
| 2. Hydrastine hydrochloride | ... | 5 gr. |
| Eau de Cologne              | ... | 4 oz. |

Apply frequently to the surface of the skin.

- |                 |     |     |                   |
|-----------------|-----|-----|-------------------|
| 3. Zinc oleate  | ... | ... | $\frac{1}{2}$ oz. |
| Powdered starch | ... | ... | 1 oz.             |
| Salicylic acid  | ... | ... | 20 gr.            |

Mix.

### Red Colouring Matter.

At the recent meeting of the American Pharmaceutical Association Mr. Alexander Gardiner, Brooklyn, read a paper on "The Colouring Principle of Cudbear," on which he and Mr. Otto Raubenheimer had collaborated. This principle is extracted from cudbear by percolation with acetone, the yield being about  $8\frac{1}{2}$  per cent. It is named persionin, and is a semi-liquid which cannot be dried and powdered successfully, although when mixed with some dry absorbent powder, as kieselguhr, it remains in a pulverulent condition. Cudbear, it was stated, contains about 4 per cent. of sodium chloride, which interacts with some of the substances present in certain mixtures with which it is used, with the result that the colour is destroyed. The following formula was given for a carboy colour solution:

- |                  |     |     |           |
|------------------|-----|-----|-----------|
| Persionin        | ... | ... | 10 grains |
| Wood naphtha     | ... | ... | 8 oz.     |
| Ammonia solution | ... | ... | 6 drachms |
| Water, to make   | ... | ... | 1 gal.    |

### Bay Rum.

A GOOD AND CHEAP PRODUCT for barbers' trade is made, according to Mr. H. C. Bradford, Nashville, Tenn., from the following recipe:

- |                      |     |     |        |
|----------------------|-----|-----|--------|
| Oil of bay           | ... | ... | 3 dr.  |
| Tincture of capsicum | ... | ... | 2 dr.  |
| Acetic ether         | ... | ... | 2 dr.  |
| Alcohol              | ... | ... | 32 oz. |
| Water                | ... | ... | 96 oz. |

Mix all the ingredients except the acetic ether, which is only added after filtering. The preparation is usually coloured yellow.

### Quinine Hair-tonic,

also for barbers' trade, is made as follows:

- |                         |     |     |           |
|-------------------------|-----|-----|-----------|
| Quinine sulphate        | ... | ... | 60 grains |
| Tincture of cantharides | ... | ... | 2 oz.     |
| Borax                   | ... | ... | 40 grains |
| Alcohol                 | ... | ... | 32 oz.    |
| Glycerin                | ... | ... | 2 oz.     |
| Lilac-water             | ... | ... | 16 oz.    |
| Water to make           | ... | ... | 128 oz.   |

Mix, allow to stand a few days, and filter. Colour red with red saunders—about 1 oz. is required for the above.

## ASSOCIATION AFFAIRS.

### Association Presidents.

THE Forfarshire Chemists' Association is the successor to the Dundee Chemists' Association, which was founded in 1867,



MR. J. GRAY.

when the first visit of the British Pharmaceutical Conference was being arranged. The Association remained in abeyance for many years, but a spark of vitality was sustained, it is said, by "the doctor," a popular and artistic Dundee chemist, who had charge of an Evans' materia-medica cabinet which was the property of the Association, and when an opportunity occurred he was not slow in letting students know that they could use it. The Association was resurrected in 1897 as the Forfarshire and District Chemists' Association, with Mr. Charles Kerr (whose sudden death on Tuesday has occurred since these observations were written) as President and Mr. James Russell as Secretary and Treasurer. Dundee is the headquarters, but Presidents and other office-bearers are drawn from all parts of Forfarshire. This year's President is Mr. John Gray, the proprietor of the retail and wholesale business of Messrs. Davidson & Gray, 128A Nethergate, Dundee. Mr. Gray was apprenticed with the late Mr. J. N. Davidson when he was in business in Elgin. Before his apprenticeship was finished Mr. Davidson disposed of the Elgin business, and started in Dundee in 1876. Mr. Gray went with him, and remained there till he passed the Minor examination in December 1881. After a year in charge of "The Laboratory," Innerleithen, and a year in Forres, Mr. Gray returned to Dundee in 1883 owing to Mr. Davidson's failing health, and became a partner with him, ultimately acquiring the business in 1896. He has carried it on most successfully, having trebled the business since he acquired it, and he has recently added a floor to the premises, which he occupies as showrooms and office, so that the premises are the most extensive of the kind in the district. Mr. Gray is spoken of by his old apprentices in an affectionate manner, and is recognised as one of the keenest yet quietest business men in Scottish pharmacy. He has been a member of the Forfarshire Association since 1897, and worked quietly in it all the time in several directions before he was elected President at the last annual meeting.

### Brief Records.

**Wakefield.**—The Local Associations' officer of the Pharmaceutical Society visited Wakefield on October 16, and had a conference with Messrs. Chaplin, Duffin, Judge, Pollard, and Whaley. It is thought that the result of this visit may be a revival of the activity of the Wakefield Chemists' Association.

**Midland Pharmaceutical Association.**—The Council met at Birmingham on October 18 to elect officers. Mr. Edward Corfield consented to accept the presidency for another year, and Mr. Buckingham also agreed to retain the secretaryship. Mr. T. H. Barker and Mr. V. Thompson are the new auditors. Arrangements were made for the work of the session.

**Oldham Pharmaceutical Association.**—The first meeting of the winter session was held on October 10, and took the form of an evening party, whist-drive, and dance. About forty members and friends were present. Tea was provided at the Café Monico, after which whist was played. The prize-winners were: *Ladies*—first, Mrs. Foster; second, Mrs. F. Davies. *Gentlemen*—first, Mr. G. Jones; second, Mr. W. Cocks. Afterwards dancing was indulged in until a late hour.

**Salford Pharmacists' Association.**—A meeting was held at Cattle Market Hotel, Cross Lane, on October 12. Mr. D. A. Cargill (President) was in the chair, and there were also present Messrs. Simmons, Harrop, Davison, Stout, Thompson, Lewis, Gill, Jones, Bellringer, Fletcher, Gardner, Hamilton, and Brown. The evening was mostly devoted to the discussion of local topics, one matter of special interest being as to the best way of minimising the effect of unqualified competition.

**Dewsbury Chemists' Association.**—A special meeting of the Association was held on October 17, under the presi-

dency of Councillor A. B. Barker, to meet the Local Associations' officer of the Pharmaceutical Society. There were also present Messrs. Blakeley, Broadhead, R. J. Day, Flower, Gledhill, Gutteridge, Jones, Mallinson, Pickard, Rhodes, and Sheard. The meeting was unanimous in its support of the policy of the Council in regard to organisation. Questions were asked, and the answers furnished appeared to give complete satisfaction.

**Ulster Chemists' Assistants' Association.**—A committee-meeting was held in College Square, Belfast, on October 11, Mr. John Law in the chair. Mr. C. E. Doig was elected Hon. Secretary in the place of Mr. H. F. Moore, who had resigned, and Messrs. J. Murphy, F. L. Curry, A. H. Storey, and J. Parkes were elected members of the committee. The Hon. Secretary reported the Association to be in a very prosperous condition. A set of materia-medica specimens in bottles—presented by the York Glass Co. and The British Drug Houses—is now available for members reading for examination. A vote of thanks was passed to the donors.

**Lancaster Chemists' Association.**—A meeting was held at the King's Arms Hotel on October 12. There were present Messrs. Vince (President), W. Arkle (Vice-President), J. B. Shattock, A. Bate, W. Gorst, A. T. Maxwell (Lancaster), Messrs. Knowles and S. Parker (Morecambe), and Mr. J. P. Porteus (Carnforth). A committee was appointed to make arrangements for the annual dinner in November. The new poison regulations were discussed, and a resolution was passed expressing the opinion that in the case of mineral acids pharmacists should be allowed to use the word "Poison" instead of "Poisonous," especially as the former term conveys a more serious warning of danger than the latter.

**Irish Chemists' Assistants' Association.**—The annual meeting took place on October 16 in the new rooms, 2 Aston's Place, Dublin, Mr. Lynne (Vice-President) in the chair. The Treasurer (Mr. McManus) reported that the finances of the Association were satisfactory, and that there is a balance in the bank. The Committee and Trustees were elected, after which the Chairman delivered an address. He did not think that the Council of the Pharmaceutical Society should have the right to reject candidates at the examinations. He also thought that the Society is out of date in its methods, the law not allowing the Society sufficient latitude to permit of progress. A short discussion took place afterwards.

**West Ham Association of Pharmacists.**—The ninth annual social evening in connection with this Association was held at Earlam Hall, Forest Gate, London, E., on October 12. The early part of the evening was devoted to progressive whist, when twelve games were played by sixty-eight players. Mr. J. E. Evans (Hon. Secretary) acted as M.C. The prizes were awarded by Mr. A. H. Cleland (President) to the following: *Ladies*—first prize, Miss K. Hunt; second, Mrs. Clapp; third, Miss Lucy Dunmore; mystery, Mrs. Blades. *Gentlemen*—first, Mr. P. Royle; second, Mr. Thompson; third, Mr. Howes; mystery, Mr. S. Adpar Jones. The evening finished with a concert, which was much enjoyed.

**Bath Pharmaceutical Association.**—The annual meeting was held on October 12 at the Literary Institute, the President (Mr. D. Evans) in the chair. The reports of the Secretary (Mr. Gedge) and Treasurer (Mr. Hawes) showed that the Association is maintaining its usefulness, and that much good work has been done in the past session. The following were then elected: *President*, Mr. Luther Wilson; *Vice-Presidents*, Messrs. D. Evans and H. K. Pryke; *Hon. Treasurer*, Mr. A. L. Snow; *Hon. Secretary*, Mr. John G. Hawes; *Committee*, Messrs. W. J. Hallett, A. H. Cooper, H. W. Gedge, E. W. Loveless, W. J. Spurway, and J. W. Cooper. The local Divisional Secretary (Mr. D. J. Williams, F.C.S.) was renominated.

**Scarborough Association of Pharmacists.**—A meeting was held on October 12 at the residence of Mr. T. W. Longdin. The following members were present: Mr. W. A. Senior (President), Messrs. T. W. Longdin, R. M. Hill, E. R. Cross, W. H. Newton, Geo. Whitfield, W. R. Eyre, E. Parker, E. M. Chapman, and G. H. Meadley (Hon. Secretary). Mr. Geo. Whitfield was renominated Divisional Secretary. Mr. J. W. Uglow Woolcock, the Local Associations' officer of the Pharmaceutical Society, is to address a meeting of the Association on October 20. Arrangements were also made for the holding of the annual meeting in November. The discussion of local pharmaceutical matters occupied the remainder of the evening.

**Ipswich Chemists' Association.**—The annual meeting was held at the Great White Horse Hotel on October 13, the President in the chair. There were also present Messrs. Wiggin, Clifton, Symonds, Jackson, Edwards,

Miller, Stones, and the Hon. Secretary (Mr. A. Matcham). The following were elected officers for the ensuing year: *President*, Mr. S. R. Anness; *Vice-President*, Mr. J. C. Wiggins; *Hon. Secretary and Treasurer*, Mr. W. H. Stones; *Committee*, Messrs. E. S. Clifton, J. A. Symonds, J. T. Jackson, G. N. Edwards, and A. Matcham. Mr. S. R. Anness was recommended for reappointment as Divisional Secretary. It was decided in future to hold meetings on the second Thursday in each month from October to April.

**Huddersfield Chemists' Association.**—A special meeting of the Association was held on October 16 for the purpose of receiving a visit from Mr. W. J. Uglov Woolcock, the Local Associations' officer of the Pharmaceutical Society. Among those present were Messrs. Cooper, Denham, France, Hadfield, Murgatroyd, Russell, Spurr, Stephens, Shaw, Walshaw, West, and Wood. Mr. Woolcock dealt with the National Insurance Bill and the necessity for organisation. He also outlined a plan for federating local Associations with the Pharmaceutical Society. General approval was expressed by the meeting with the scheme submitted, and many expressions of satisfaction were given at the policy adopted by the Society in appointing an officer to visit the Associations.

**Sheffield Pharmaceutical and Chemical Society.**—The annual meeting was held on October 18. Mr. G. T. W. Newsholme was in the chair, and welcomed the new members. Mr. Antcliffe (Hon. Secretary) presented the annual report, which showed that there are eighty-one adherents, compared with forty-eight last year. The balance-sheet was satisfactory considering the large expenditure necessitated by extra meetings on account of the National Insurance Bill. The subscriptions amounted to 25*l.* 7*s.* 6*d.*, the largest amount in the Society's history, and the balance in hand was 18*l.* 12*s.* 5*d.* Reference was made to the loss through death of Councillor A. Russell Fox, one of its oldest members and a past-President. Mr. Appleton raised the question as to whether the new members had been informed that although they have paid a subscription on election, another is due owing to the commencement of a new financial year. The President said he regarded the remarks as bad form. Mr. G. Squire presented the balance-sheet, and both report and balance-sheet were adopted. The following were elected members of the Council: Messrs. Airey, Antcliffe, Austen, Bellamy, Beulah, and Newsholme.

**Sunderland Pharmaceutical Association.**—The annual meeting was held at the Grand Hotel, Bridge Street, on October 17, when the following were present: Mr. W. Nimmo (President), Mr. R. Anderson (Vice-President), Mr. C. Hodgson (Treasurer), Messrs. W. Potts, R. C. Thursfield, J. G. Harrison, G. P. Fairman, C. Ranken, R. H. Bell, F. Harpham, and A. H. M. Purse (Hon. Secretary). The Treasurer's report was read and accepted, and the Secretary outlined the work of the Association during the past year—the principal business having been in connection with the National Insurance Bill now before Parliament. The following officers were elected for the ensuing year: *President*, Mr. W. Nimmo; *Vice-President*, Mr. R. Anderson; *Treasurer*, Mr. C. Hodgson; *Hon. Secretary*, A. H. M. Purse; *Council*, Messrs. R. H. Bell, C. Ranken, G. P. Fairman, E. R. Cherrett, J. Mitchinson, R. C. Thursfield, and J. G. Harrison; *Auditors*, Messrs. C. E. Fairley and W. Potts. The annual dinner is to be held on November 30. Mr. Hodgson thought the Association ought to do something for the apprentices to study pharmacy, and that prizes might be offered for competition. Messrs. Ranken and Thursfield with the officers of the Association were appointed a committee to deal with the matter.

**Portsmouth Pharmacists' Association.**—A happy informal gathering at "The Cadena" on October 18 marked the opening of the winter programme of this Association. Mr. T. A. White (President) was supported by a score of members, including Messrs. Howard and W. O. Smith (Fareham), Baker (Cosham), P. P. Davies (Havant), Corke and Waterhouse (Haslar). The arrangements for the session were discussed, and the Secretary was instructed to elaborate the suggestions brought forward. An entertainment committee, consisting of Messrs. Arnold, Atterbury, Postlethwaite, Rhodes, E. H. Smith, and Sparrow, was appointed to fix up whist-drives, etc., while the President and Mr. Barlow undertook to secure papers. In the course of the proceedings the President asked Mr. Barlow to accept a silver inkstand as a token of appreciation of his work and the goodwill of his colleagues. When Mr. Barlow essayed a response, the company showed their feeling in an unmistakable manner. He thanked them sincerely; he was sure, too, that by coming together they had done good work, and would do still more. One direction in which they could work was the shortening of the hours of labour, and if the members of the craft could be still more united and treat each other fairly and squarely, much of present servitude would be abolished. Light refresh-

ments were served, and a recitation, "The Fully Licensed Man" (Chas. Pond), given in characteristic style by Mr. F. H. Waterhouse, added to the enjoyment of the company.

**Chemists' Assistants' Association.**—There was an atmosphere of good fellowship which augured well for the coming session at the opening meeting held at 73 Newman Street, London, W., on October 12, with Mr. F. Naylor (President) in the chair. The company also included Dr. Walmsley, Messrs. H. N. Andrews, A. Barbour, H. L. Browning, H. L. Bryant, P. Cheetham, G. Cooper, Lionel Cooper, W. B. Faraday, W. Gates, H. Grange, A. Haigh, E. M. Haslam, Harry Hickey, F. W. Crossley Holland, A. Latrielle, F. L. K. Loxley, W. Mosley, A. D. Ogier, A. C. Rees, T. Roberts, W. Roberts, C. H. Searle, E. Thompson, G. A. Tocher, A. Whittaker, R. W. Warrick, W. S. Williams, and P. B. Phillips and W. P. Styles (Hon. Secretaries). Mr. G. A. Tocher reported on the reception of the delegates at the Portsmouth Conference. The President, in his inaugural address, was optimistic as to the future of the C.A.A., but dwelt upon the desirability of members endeavouring to get the Association's membership even higher than at any time during its past history. The pith of the address is contained in the sentence: "The true spirit for a member is not what he can get out of the Association, but what he can put into it, and do for it." The President's next duty was to present a case of pipes to Mr. A. Latrielle, who, owing to his secretarial duties for the Western Chemists' Association, had been obliged to relinquish the office of Treasurer to the C.A.A. The President remarked that during Mr. Latrielle's seventeen years' connection with the Association he had filled every office, and that the Association trained men to help other Associations out of difficulties. Mr. Latrielle, in returning thanks, said that his new duties would not prevent him continuing his interest as a member of the C.A.A. He had no intention of abandoning it. The remainder of the proceedings consisted of a musical and social evening, to which items were contributed by Messrs. Barbour, G. Cooper, H. Grange, A. Haigh, Crossley Holland, A. Latrielle, R. E. Lownsbrough, P. B. Phillips, and S. C. G. Tweedy.

### Manchester Pharmaceutical Association.

The first meeting of the session was held at the Victoria Hotel on October 11, the President (Mr. Geo. S. Woolley) in the chair.

The usual custom of opening the session with a dinner or other social function was departed from on this occasion, the subject for the evening being a lecture by Mr. Jas. Grier, M.Sc., on

#### MODERN SYNTHETIC REMEDIES.

The lecturer treated the subject so as to bring out the relationship which exists between the chemical structure of these substances and their physiological action, a method which made the subject more interesting and fixed the attention of the members. After sketching the development of the subject, the lecturer showed how the physical properties modify profoundly the physiological action of otherwise chemically similar substances. Meta- and para-salicylic acids, for example, are without the physiological effects which one associates with salicylic acid, and lævo-hyoscyamine is said to be twenty times more active physiologically than the otherwise chemically identical dextro-variety. Certain definite radicles have also specific properties—e.g., the ethylic radicle  $C_2H_5$ —which would appear to confer hypnotic property, and numerous cases of hypnotic drugs containing this radicle were cited. Practically all synthetic antipyretic and analgesic drugs contain the acetyl radicle  $C_2H_3O$ . Not only so, but it occurs in such naturally occurring pain-relieving drug-principles as aconitine and colchicine, and in the form of lead subacetate is the basis of sedative lotions. Very striking is the development, apparently at will, of the antiseptic, antipyretic, or analgesic properties latent in the benzene nucleus by the introduction of hydroxyl, amido, alkyl, and acetyl radicles. The group of pressor substances or vasoconstrictors was the last to be considered. The similarity both in chemical constitution and in physiological action of the differently occurring active principles of ergot and of the suprarenal gland was shown, as well as the remarkable difference in physiological activity between the lævo- and dextro-rotatory forms of adrenalin. It was pointed out that the effects produced in physiologically standardising ergot—viz., the rise of blood-pressure and the production of gangrene—are neither of them due

to the active constituent which acts upon the uterus. On the motion of the Chairman, seconded by Mr. Kidd, a vote of thanks was accorded the lecturer. The Chairman then invited Mr. Rymer Young to address the meeting on the present position with regard to the National Insurance Bill, after which Mr. D. Mayor (Ardwick) and Mr. W. F. Downes (Broadheath) were elected members.

### Public Pharmacists' and Dispensers' Association.

THE opening meeting of the winter session of this Association was held on October 18 at St. Bride Institute, Fleet Street, London, E.C., when the inaugural address was delivered by Mr. Glyn-Jones, M.P. The chair was occupied by Mr. John C. Umney. There were about fifty persons present. In opening the proceedings Mr. George Udale (Chairman of the Association) stated that progress has been made with the register of public institutions and public dispensers. The list contains the names of 1,540 institutions; in connection with these there are 682 dispensers, 80 per cent. of whom are pharmacists.

Mr. Umney then briefly introduced Mr. Glyn-Jones, who, on rising, was received with applause. Having announced his intention to confine his remarks specifically to the medical benefits under the National Insurance Bill, Mr. Glyn-Jones said it is estimated that 80 per cent. of the 15,000,000 people who would come within the provisions of the Bill at present receive medical attention and drugs from the same hand—viz., the doctor. From personal experience he knew that in the case of the lowest stratum, the poorest-paid worker—the conditions which at present very largely pertained to the medical treatment of patients were such, that if the British public were fully aware of them they would not be tolerated for six months. A system whereby a doctor contracts to provide his services and medicine for a certain number of people at a fixed capitation fee is in essence wrong. Increase the amount if you like, but even then you do not get rid of the inherent mischief of the system. "I do not hesitate to say," was the next interesting declaration in Mr. Glyn-Jones's address, "that everyone connected with the healing art of medicine ought to give credit to the Chancellor of the Exchequer for this, that without, as far as I know, any direct pressure at all from the people who are most pecuniarily interested in this matter, he should in producing such a scheme as this have separated the function of the prescriber from that of the dispenser. (Applause.) I am sometimes apt to be a little impatient with some of the petty criticism even from the point of view of the details of the Bill, when there is a practical failure to recognise that we as pharmacists could not have been interested in this scheme were it not that the framer of the measure, on his own initiative, has brought in the provision, 'I will have the doctor to prescribe and the pharmacist or someone else to dispense. I will divide the functions.' From the point of view of medicine and pharmacy, whatever becomes of this scheme a great step forward has been taken in getting the people of this country to recognise what you and I have been saying in the wilderness for a very long time without any attention being paid to us, that so far as this is concerned, it should be every man to his last, and that it is in the interests of the public that the doctor should confine his operation to his purely professional work, and that he should leave the dispensing of the drugs he orders to those who, unlike himself, are principally trained to do that particular work." (Applause.) Mr. Glyn-Jones then dealt with the question of dispensers under the Bill and the recognition which had been given of the vested interests of dispensers to medical men. He also referred to the new qualification of dispensing assistant which will be created when the Bill becomes an Act. Finally he dealt with various objections which have been raised to the Bill. He was delighted that the great mass of the pharmacists of the country recognised that by the Bill a great step forward was being taken. They had been patient, forbearing, and had pointed out a number of suggested improvements, but he was glad to tell them that as pharmacists they had a good name in the House of Commons, and that was worth having. This was not because of any representatives they had there, but because they had taken a reasonable line.

Questions were then put by Mr. Forster (Dover), Mr. R. W. Lindsay, Mr. Gardner, Mr. Welford, Mr. Bullen, and Mr. Udale, to which Mr. Glyn-Jones replied.

Votes of thanks concluded the meeting.

### Newcastle-on-Tyne Pharmacists' Association.

THE fifteenth annual meeting of this Association took place in the Hotel Metropole, Clayton Street West, Newcastle-on-Tyne, on October 11. There was a good attendance, and Mr. W. Buckley was in the chair. There were also present Messrs. G. Weddell, G. Foggan, W. Pescod, W. Kerse, T. M. Clague, F. Gilderdale, J. Gibson, R. Wright, W. R. Gray, T. Fleming, H. W. Noble, J. Doig, J. Dakers, J. Graham, R. U. Low, J. Crake, F. R. Parker, J. F. Simpson, R. Cubey, C. E. Layne, R. McClumpha, Shaw, and D. J. Weddell. Mr. G. Foggan reported on his visit to the British Pharmaceutical Conference at Portsmouth. The Treasurer (Mr. W. Kerse) presented his statement of accounts, which showed a balance in hand of 4*l.* 9*s.* 8*d.* The Secretary reported on the year's working, after which Mr. H. W. Noble moved—according to notice given—certain alteration in the rules, but after some discussion it was agreed to alter only the word pharmacist for chemist. The following were elected officers for the ensuing year:

*President*, Mr. Geo. Weddell; *Vice-Presidents*, Messrs. W. Buckley, T. M. Clague, G. Foggan, C. Russell, R. Wright, and H. W. Noble; *Treasurer*, Mr. W. Kerse, re-elected; *Secretary*, Mr. W. Pescod, re-elected; *Auditors*, Messrs. G. Whitehead and W. Atkins, re-elected; *Council*, Messrs. F. Gilderdale, R. Cubey, E. Dean, R. U. Low, W. R. Gray, J. F. Simpson, R. McClumpha, and J. Crake; *Parliamentary Committee*, Messrs. R. Wright, C. Russell, F. Gilderdale, T. H. Fleming, H. W. Noble, the President, Secretary, and the Divisional Secretaries of the Pharmaceutical Society; *Hon. Solicitor*, Mr. C. E. Layne; *Representative on the Chamber of Commerce*, Mr. W. Buckley.

Mr. George Weddell, the new President, then delivered the inaugural address on

#### CHANGES IN PHARMACY.

Mr. Weddell began by stating that every occupation in the natural course of civilisation undergoes changes which are inevitably in one direction—changes from the general to the special. Taking pharmacy as an occupation, he pictured an old English village, with the sun shining on the green, and an old woman coming out of a cottage with a basket on her arm to gather herbs. In those early days such women were the pharmacists of the time. At a later period the apothecary in skull-cap and long flowing robes was the handler of the simples. Then came the "chymist and druggist," who no longer gathered his simples but bought them and made his galenicals in his back shop as a laboratory. Even so late as forty years ago there was an hourly demand for salts and senna, sulphur and cream of tartar, and many other popular simples, but about thirty years ago an important innovation was made which profoundly affected the pharmacist's condition. Patent medicines began to be more extensively advertised, and a public demand for them was created which chemists were only too willing to meet, because the business was very remunerative. As no skill was necessary for this part of the business, outside dealers, such as grocers and other, began to take it up, and so originated the "Store Chemist." Meanwhile, pharmacy proper was advancing. The strength of drugs became standardised; new methods of working were introduced; new forms of administration were adopted, with the result that the sales of capsules, tablets, pilules, and cachets, ready prepared and packed, have been increasing. Mr. Weddell then took a glance into the future and said:

The mixture of trades which has made many chemists' shops a display of photographic goods, toilet-requisites, and multifarious articles, appears to be working in exactly the opposite direction to that which I have indicated in previous remarks. It appears to work from the special preparation of drugs to the general dealing in all kinds of merchandise. This is, however, only a transitive condition, due to the rapidity of social changes and the apparent impossibility of making a livelihood of pharmacy proper. The disadvantage of the present condition of things is this—for most of

the work now done in a chemist's shop no special training in science is necessary, and as the pharmacist is not merely a shopman, it is a social waste that he should, after having passed serious examinations in science, devote himself to occupations for which that science is of no account. It is, therefore, inevitable that he must either maintain the distinction and advantage which a scientific training should give him, or he must degenerate into a mere hander-out of goods.

#### THE FUTURE OF PHARMACY.

Several suggestions for solution of this problem can be brought forward, the first being the limitation of the number of pharmacists. In some Continental countries the status and livelihood of the pharmacist are secured by Government restricting their number. There is not, I think, the slightest chance of this being done in Great Britain, nor could it be reasonably recommended, because the same argument could not be extended to the professions of medicine and law and, indeed, every other occupation. Sooner or later a man must depend upon his own initiative and energy to work out his life, and no regulation by Government can take the place of personal responsibility. The second suggestion is legal protection to pharmacists by restricting to them the sale of all drugs. Protection, however, as such, is generally one of the deadliest enemies to progress, blighting and paralysing both those whom it protects and those whom it does not protect. Let me remind you that the Pharmacy Acts were not devised to protect the pharmacist and give him a living, but to protect the public against the dangers of ignorant persons dealing with drugs and poisons. Government does not compel anyone to be a chemist or guarantee him a living if he should adopt that calling. All that the law says is that if you propose to deal in drugs and poisons and to dispense prescriptions you must show that you are qualified to do so by passing certain examinations. But is the public sufficiently protected by the law as it stands? Are there not innumerable articles used as drugs which are sold by unqualified persons to the danger of the public, and should this sale not be restricted to the pharmacist in the interest of the public? This is a question which has long since been decided in Continental countries, and there is no reason why it should not be so in this.

#### THE NEED FOR ORGANIC CHEMISTRY.

The next suggestion is one that I am not competent to discuss, but would merely ask you whether the examinations of the Pharmaceutical Society have kept pace with modern science, and whether the pharmacist can obtain and does obtain an up-to-date training in organic chemistry, such as in the preparation of animal extracts or compounds? From age to age fashions and methods change. Three centuries ago animal preparations were exhibited in great variety. The brain of a fox, the heart of a wolf, snails beaten up with their shells, and a host of other such savoury things were in daily use. Then came the era of vegetable simples. After that came the fashion of minerals. Towards the latter end of the last century drugs altogether seemed to be going out of fashion. Now there is a revival of animal preparations on a scientific basis. Whether it be a vaccine, a serum, or an extract, there is every day a call for organic remedies. Do facilities exist for the pharmacist to become acquainted with the method of their preparation? I do not say that it is necessary or even possible that chemists should make these things, but they ought to be acquainted with the manner of their preparation, and the rationale of their action.

#### BUSINESS KNOWLEDGE.

Another suggestion which I venture to throw out is that, in addition to thorough equipment in the science and arts which are necessary to his calling, the pharmacist should give a definite period to the study of business methods. Some of you may remember the little book "How do I Stand?" which was intended to explain how the business-books of a retail business might be clearly kept, so that a man could tell how he was doing from a profit and loss standpoint. Important as that is, there is a still more urgent need—a knowledge of the principles and practice of conducting business. Bookkeeping is merely a record of transactions, but how to conduct the transactions themselves, and how to increase their number and value, that is the problem of business. The very fact that the young chemist requires to devote so much time to science handicaps him in the acquisition of business methods. It might be considered derogatory to the dignity of the School of Pharmacy to institute a brief course of business training for the student. Whether he gets it there or elsewhere, he must have it to ensure a successful career. Plato describes how the captain of a ship has two professions, one of which is concerned with navigation, to enable him to steer his vessel with safety to port; the other is with the business man, by which he will be able to make a profit for the ship or the merchant. In

modern days the ship captain does not always require to conduct the merchant's business in port, but the pharmacist must know not only his science, but also his business.

#### TO OBTAIN PUBLIC CONFIDENCE.

You may ask what would be the effect of closer and wider training upon success in life? What good will it do us in view of competition by unskilled persons and no protection from the law? The answer to this is that there is a higher authority even than law—namely, the confidence of the public. Already the public has become more discriminating. The craze for cheap drugs is to a great extent dying down. Indeed, in every calling the intelligent public prefer to deal with the specialist who can discuss with them the merits of what they are buying, rather than with the mere "hand-me-down" salesman. The more intelligent people become, the more careful will they be to go to a chemist whom they can depend upon—that is, the man who knows everything about what he is dealing with. If you want postage-stamps, an automatic machine will sell them to you as well as any attendant, sometimes with as much courtesy, and certainly the stamps will be just as good. But where drugs are concerned, health is concerned, and life itself may be concerned. You want the right thing in the right amount and of the right quality. The atmosphere of care with which the pharmacist surrounds his drugs can only be acquired with lifelong cultivation. If you pay the architect for style, the tailor for cut, the bootmaker for comfort, and the pianoforte maker for tone, would it be rational to grudge the pharmacist payment for safety and certainty?

Mr. Weddell then considered the methods for securing the confidence of the public, and wound up his address with the assertion that "there is a future for the man who will devote himself to pharmacy proper, pharmacy up to date in knowledge and methods and practice, especially if he be mentally alert and learns how to make the best business use of chances that may come his way."

A hearty vote of thanks was accorded to Mr. Weddell for his address.

## OUR GERMAN LETTER.

(Special Correspondence to the "C. & D.")

**Dr. Schmidt's Jubilee.**—To commemorate the fiftieth anniversary of his entry into pharmacy, Geheimrat Professor Dr. Ernst Schmidt, the celebrated professor of pharmaceutical chemistry in the University of Marburg, has presented the German Apotheker Verein with the sum of 5000. One-half of this amount is to be used in connection with the Society's pension fund, and the other half is to be paid into the Johann Albert Schmidt endowment fund, founded by him some years ago.

**German Pharmacists** have been painfully surprised to hear that the owner of one of the pharmacies in Gleiwitz, Silesia, has taken the extraordinary course of inserting the following announcement in the local papers: "In consequence of the constant diversion of business from the pharmacy named below, until further notice a rebate of 25 per cent. will be granted on all private prescriptions paid for cash down. Hegenscheidt Apotheke, Gleiwitz-Petersdorf." An action of this kind is practically without precedent, and the apotheker is severely called to task for having at this critical juncture seriously imperilled the position of all pharmacists in the fight with sick-clubs, for the rebate promised is even higher than that granted to sick-clubs. The apotheker is, however, by no means repentant; on the contrary, he goes so far as to state that the circumstances which led to this step will shortly compel him to grant 33½ per cent. rebate.

**Alkaloid Process.**—An interesting method for the preparation of alkaloids has been patented by Mr. Frederick W. Frankt, London (German patents Nos. 237756 and 237776). The following procedure is adopted: The drug is moistened with water under pressure—for instance, 500 grams of such drugs as nux vomica, opium-powder, coca-leaves, and tea are thoroughly moistened with 50 to 100 grams of water under pressure at a temperature of 120° to 145° C. The extractor is constructed on the basis of the Soxhlet apparatus, and the moistened drug, heated to 100°-110° C., is extracted with paraldehyde. Of the solvent the amount needed is five to ten times that of the drug employed, voluminous powders or drugs requiring more than compact drugs for complete exhaustion. The method is stated to prevent the simultaneous extraction of other bodies beside the alkaloids, and thus to obviate the processes required for separating the alkaloid from foreign substances.

## TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, London, E.C., October 19.

**B**USINESS is exceedingly brisk, but there is a general complaint that it is difficult to get the goods, and prices in several instances have gone up solely because supplies on the spot or in sight are insufficient to meet immediate requirements. This is notably the case with menthol and other Eastern produce and milk sugar. Otherwise the changes of the week are few, as may be observed from the subjoined table of changes:

Higher	Firmer	Easier	Lower
Ammon. chloride	Acetates	Chillies	Tartrates
Anise oil	Beeswax	Cod-liver oil	Turpentine
Cardamoms	Ergot	Lemon oil	
Chinese wood oil	Opium		
Cinnamon chips			
Ipecacuanha			
Menthol			
Pareira brava			

### Cablegrams.

SMYRNA, October 18.—A hundred cases of opium have been sold to America at 24s. 9d. per lb. for old and 23s. 9d. for new crop. The market is now firmer, and is advancing.

SMYRNA, October 19:—Other buyers have come into the market and bought at 6d. higher, and a further material advance is foreseen.

NEW YORK, October 19:—A moderate business is being done on this market. Opium is quiet at \$8 per lb.; peppermint oil steady at \$2.95; methol higher, \$6 having been paid; Tolu balsam is quoted 50c. nominally; hydrastis scarce at \$5.50; cascara sagrada, 9½c., is quiet, and copaiba is unchanged.

### Heavy Chemicals.

Business in the heavy-chemical market continues of a satisfactory nature, both from the point of view of volume and values. A large proportion of the contracts for 1912 have already been concluded, so that in this respect matters are quieter. Export inquiry and shipments are good.

SULPHATE OF AMMONIA.—This market is firm, and at some ports prices are a shade better. Prompt parcels continue to be taken up well. Forward business very quiet. Present nearest figures: Beckton, prompt, 25 per cent. ammonia, guaranteed, 13l. 15s.; London terms, 13l. 10s.; Leith, 14l. 7s. 6d.; Liverpool, 14l. 5s. to 14l. 7s. 6d.; and Hull, 14l. 2s. 6d.

LEAD PRODUCTS are in good demand and on the firm side. White lead 20l. and red lead 17l. 10s. per ton Tyne; white acetate of lead 24l. 5s. to 24l. 10s. and brown acetate of lead 21l. to 21l. 10s.; nitrate of lead 24l. 15s. to 25l. 10s.; all per ton, less 2½ per cent.

BENZOLS are extremely scarce, and prices are higher and nominally as follows, naked: London, 90 per cent., 11l., and 50 per cent. 9½d.; north, respectively, 10½d. and 9d.

STRONTIUM SALTS continue in fair average demand at unaltered figures. Precipitated carbonate of strontia, 90 to 95 per cent., 11l. to 12l. 10s. per ton; mineral carbonate of strontia, lump, 87 to 91 per cent., 14l., and small, 80 to 85 per cent., 12l.; hydrate of strontia crystals, in casks, 9l. to 9l. 15s. per ton.

ZINC SALTS maintain a steady tone, both as regards value and demand. Zinc sulphate crystals 7l. to 7l. 10s. and zinc chloride, 100° Tw, 6l. 5s. to 6l. 10s. per ton.

MAGNESIUM SALTS have been in better all-round demand. Sulphate 62s. 6d. to 67s. 6d. per ton, chloride 67s. 6d. to 70s. per ton, and carbonate 30s. to 35s. per cwt.

### Manchester Chemical Market.

The market is very steady for heavy chemicals. In sulphate of copper there was a turn for the better last week, but the raw metal having relapsed, there was a check to the demand. Generally the quotation is 19l. 10s. to 19l. 15s. per ton, best brands delivered Manchester, with 10s. to 12s. 6d. per ton for forward delivery. In arsenic there is little change to note. Caustic potash slow, 75 to 80 per cent. solid being quoted 19l. 15s. per ton ex store Manchester. Electrolytic quoted on inquiry. Carbonate of potash unchanged 16l. 5s. per ton f.o.r. Manchester, net. Glycerin very weak, and crude continues its downward course. There is a decided pressure to sell, and, with buyers more or less apathetic, prices have declined, and good English, 80 per cent., is obtainable at 56l. to 57l. per ton net cash, delivered at sea-board. Distilled has weakened in sympathy, and there are sellers of 1,260 s.g. pale at 92s. per cwt., less 2½ per cent. carriage paid Lanes. Italian green olive-oil soap is scarce for early delivery, but a limited quantity of 56 to 58 per cent. to sell for early delivery is offered at 22s. to 22s. 6d. c.i.f. Liverpool, net cash, in bars packed into 2-cwt. cases. In farina, there is no change to note in the general situation, both Holland and Germany maintaining recent quotations. Occasionally a speculative seller appears who is anxious either to unload or to discount the legitimate market value, but little notice is taken by the trade here, who are satisfied that the prevailing high limits are perfectly justified by the state of the crops. Superior German spot 16s. 6d.. forward 17s. per cwt. ex store Manchester; superior Dutch 14s. 6d. to 15s. f.o.r. Goole-Manchester; seconds 12s. f.o.r. Goole; all net cash. The price of east-oil seed is well maintained, but oil has eased off a little in price, and now stands at a very low figure; in fact, crushers cannot have much margin on the present basis. Greases are steady. Brown bone, 27s. to 27s. 6d.; white bone, 28s. to 28s. 6d.; marrow fat, 29s. to 30s.; brown and white skin not offering; all at makers' works or landing port, less 2½ per cent.

### London Markets.

ACETATES.—It is practically determined that next year's price of acetate of lime will be higher, probably 10l. 5s. per ton. In consequence other acetates and acetic acid will be affected, and the present price of acetate of lead on the spot is 25s. per cwt. for white crystals.

AMMONIUM CHLORIDE has advanced by 1s. 6d. per cwt. Ammonia solution is expected to go higher also.

ANISE OIL, like all other products from the East, is dearer. Sales of spot oil were made on Wednesday at 5s. 6d. per lb., and 6s. is now asked. Business has been done in September-October at 5s. c.i.f. There is very little here.

ANISEED.—Russian is very scarce on the spot, and no offers for shipment can be obtained at a reasonable price.

CANARY-SEED is steady, but slow, at 46s. to 48s. per quarter for ordinary to fair quality. The price in Turkey is lower for shipment.

CARAWAY-SEED is lower on profit-taking at 27s. to 28s. per cwt. for fair to good quality.

CASSIA LIGNEA.—Common broken sold in auction on Wednesday at 22s. to 23s. without reserve.

CHILLIES.—In auction 109 bags of fair small Mom-bassa sold without reserve at 41s. 6d. per cwt.

CHINESE WOOD OIL.—Dearer, 40s. per cwt. on the spot now being wanted.

CHRYSOPTANIC ACID.—It is not improbable that this article will see a rise in value soon.

CINCHONA.—At the auctions on Tuesday no fewer than 1,122 packages of bark were offered, representing 5 tons of quinine sulphate. The sale passed off well, most of the bark being sold at prices fully better than the last unit, 2½d., but not quotably higher. The few parcels which did not sell were limited at what was felt by buyers to be too high an estimate of alkaloidal content. The following are notes of the sales:

East India: 337 bales offered and 220 sold, according to analysis. Succirubra, natural stem chips at 2d., Ledger, ditto, at 1½d. subject. Officialis, natural stem chips, at 1½d. to 3½d., broken quilly chips at 2d. to 2½d.

**JAVA:** 584 bales offered and 459 sold. Ledger stem chips at  $3\frac{1}{2}d.$  to  $4\frac{1}{2}d.$ , root at  $3\frac{3}{4}d.$  to  $4d.$ , branch and twigs at  $1\frac{1}{2}d.$  to  $3\frac{3}{4}d.$ . Hybrid stem chips at  $2\frac{3}{4}d.$ .

**AFRICAN:** 201 bales offered and sold. Broken quill and chips at  $2\frac{1}{2}d.$  to  $2\frac{3}{4}d.$ , with one lot at  $2\frac{1}{2}d.$ .

Amsterdam brokers received a cable on Wednesday announcing that the bark shipments from Java to Europe during the first half of October amounted to 559,000 Amst. lb., against 629,000 Amst. lb. in 1910 and 385,000 Amst. lb. in 1909.

**CINNAMON** is dearer, ordinary firsts are quoted 1s.  $0\frac{1}{2}d.$ , seconds have been sold at  $11\frac{1}{2}d.$ , and thirds at  $11d.$  per lb.

**CITRIC ACID** maintains its firm position, but there is no change in prices.

**CLOVES** are quiet, and little business doing at unchanged rates. In auction on Wednesday 50 bales of Zanzibar stems sold without reserve at  $2\frac{1}{2}d.$  to  $2\frac{3}{4}d.$ .

**COD-LIVER OIL.**—Our Bergen correspondent, writing on October 16, reports that the oil market is easier, and finest Lofoten non-congealing cod-liver oil cannot be quoted above 111s. per barrel, f.o.b. Bergen.

**COLOCYNTH.**—A good deal of this drug has been cleared lately, and business has been done in fair qualities of pulp up to  $6\frac{1}{2}d.$  per lb.

**CORIANDEER-SEED** is firm at 15s.  $6d.$  per cwt. for Morocco. The price quoted for new-crop Russian is prohibitive.

**CREAM OF TARTAR** is a steady market at last week's rates.

**CUMIN-SEED** is in steady demand at 23s. to 25s. per cwt. for Morocco on the spot. Ordinary Malta is offering at 27s. per cwt., c.i.f. terms, for shipment.

**ERGOT.**—For fine new Spanish 4s.  $9d.$  per lb. has been refused, 5s. being wanted. For October-November shipment 4s.  $8d.$  c.i.f. has been paid.

**EUCALYPTUS OIL** is much dearer and scarce; 1s.  $3d.$  to 1s.  $4d.$  is now asked for B.P., and 1s.  $6d.$  is the lowest for *Globulus* oil. *Amygdalina* is not obtainable at all.

**FENUGREEK-SEED** is dear at 10s.  $6d.$  per cwt. for Morocco on the spot.

**GALLS.**—The market is very firm, good blues being quoted at 51s. c.i.f. and 53s.  $6d.$  to 54s.  $6d.$  spot.

**GLYCERIN.**—Refined in cases is quoted 1057. per ton naked. Continental makers are not so firm.

Reports from Marseilles state that a further fall has lately taken place in the price of this article for immediate delivery. Although Paris prices were given as 167.50f. for soap-qualities and 135f. for 80 per cent. glycerin from the lye, business was done on the basis of 165f. and 130f. respectively. It is, at any rate, inferred that the sellers on the latter basis allowed themselves to be influenced by the offers which were made on American account for glycerin from the lye and for dynamite qualities. Various European refiners, who probably are particularly interested in these American resales, have absorbed certain quantities. Meanwhile, the market for distant contracts appears to have revived somewhat, while several inquiries came forth lately from European distillers. It is thus assumed, and not unreasonably so, that business would be possible on the following basis: Saponification qualities (not under 80 per cent.) on the spot and for delivery October-December 1911 at 165f.; delivery in 1912 at 162.50f. to 160f.; and 1913 at 157.50f.; glycerin from the lye (80 per cent.) spot and delivery October-December at 132.50f.; delivery 1912 at 130f., and 1913 at 125f. to 122.50f. These prices are for 100 kilos, unpacked in buyers' barrels f.o.b. to suitable European ports in quantities (in one bottom) of not less than 10,000 kilos., with  $\frac{3}{4}$  per cent. discount for soap-qualities and  $\frac{1}{2}$  per cent. discount net for glycerin from the lye (80 per cent.).

**LEMON OIL.**—New crop is offered this week at easier rates from Palermo—viz., 4s.  $9\frac{1}{2}d.$  per lb. f.o.b. for new crop forward shipment and 6s.  $2d.$  for old crop. A report dated October 14 states:

The inactivity of the foreign demand and the tiredness which seems to have pervaded local speculators is telling on the market, which after a long period of continued advance is now quiet and very easy. For the few small parcels which changed hands this week it has been possible to obtain reductions from the holders on the prices which were considered last week as market value, and the general feeling continues to be rather weak. For new crop also prices have come down to a more reasonable level, and it might be possible just now to cover forward contracts without having to fight with the perturbatory manoeuvres of local speculators, who seem to be holding off just at present.

**LINSEED** is steady for fine qualities; Dutch at 75s. and Morocco at 72s.  $6d.$  to 74s. per quarter.

**LITHIUM SALTS.**—Inquiries from America are increasing, and in well-informed circles it is considered that there is some move on which will affect prices in an upward direction.

**MENTHOL.**—The increased inquiry has continued, and as stocks are low, without any reserve, business has been done at 17s. to 17s.  $4\frac{1}{2}d.$  for Suzuki, but none was to be had on Wednesday under 17s.  $6d.$  This is another article in which the rise is due to scarcity, and there is no new crop offered from Japan. To-day 18s. has been paid for Kobayashi brand, and now 20s. is asked. It appears that buyers on American account came into the market at the beginning of the week and cleared out all that was to be had at 16s.  $6d.$  per lb. Stocks are exceedingly low here and everywhere else, and all the factors in the situation predicate higher rates still. It is estimated that there is wanted for the season's trade now beginning about 400 cases, and it is questionable if as many exist at the present time, or are likely to be produced from the new crop. The stocks in London are smaller at present than they have been since menthol became a popular article with a variety of uses which even the sellers cannot number.

**MILK SUGAR** has been advancing in price day by day since our last report. By Tuesday 85s. per cwt. had been paid, and on Wednesday 90s. to 95s. was asked, while it was reported on 'Change that 100s. had been paid in America. This morning the New York quotation was 97s.  $8d.$  paid. The advances are due solely to consumptive demands, which are much larger than the supplies.

**MORPHINE.**—The market is unchanged, last week's quotations still holding good.

**OLIVE OIL,** like all other fixed oils, is dear. The olive crop has been good this year, but the consumptive demand is so large that there is no easing off in prices. Medicinal B.P. oil is 6s. per gallon, and edible 7s.  $6d.$ .

**OPIMUM.**—Firm. For  $11\frac{1}{2}$ -per-cent. Turkey 24s.  $6d.$  per lb. c.i.f. has been paid. Persian is firmly held.

**PEPPERMINT OIL.**—Japanese was quoted 6s.  $6d.$  per lb. on spot on Wednesday, but to-day 6s.  $9d.$  is wanted. H.G.H. is 15s.  $6d.$  per lb., London terms.

A leading American distiller writes:

"It has been well known in trade circles for a long time that the present crop of peppermint would show a comparatively small out-turn this year, owing to unseasonable weather conditions. The gathering of statistics is not quite complete, but the final figures will not change the total results in any considerable amount, and at present these figures show the 1911 crop to be 10 per cent. to 15 per cent. larger than that of 1910, but still considerably below the amount required for a year's use. It is estimated that the production in pounds this year will approximate 240,000 lb. or 245,000 lb., to which may be added carried-over stocks of 15,000 lb., making a total of, say, 260,000 lb., as against a crop last year of 210,000 lb., with carried-over stocks of 90,000 lb. This indicates that available supplies are some 25,000 lb. below the amount consumed during the current year just closed, and also that scarcity of available supplies will become apparent before the next crop can be grown. A large part of the crop was contracted for early, leaving the smallest amount unsold in the hands of growers that has been witnessed for a good many years, the total at this date probably being about 30,000 lb., of which the larger part is being held for higher prices. There is a moderate but constantly increasing demand for consumption year after year, which calls for an additional production of at least a few thousand pounds, and if this item of increase is reckoned with, we should say that the shortage in supplies will amount at least to 30,000 lb. this year. The probabilities are favourable for as large or larger foreign demands than in 1910. The price at present is about 70c. or 80c. per lb. higher than a year ago, but it may be pointed out that this increase is not as large proportionately as that in some of the other essential oils of importance, and there is no reason to believe that the trend of prices will not be upward while the possibility for lower values is very remote. *Spearmint* oil is undoubtedly in a trifle larger supply than a year ago, but stocks are closely controlled and the market can be dominated by the owners of the supplies. As much *wormwood* oil was produced this year as last, but the stock was bought and sold early, and has been distributed for consumption. The price is somewhat higher than last year, but we see no reason to expect lower prices until production is materially increased."

**QUININE.**—A very quiet market on the basis of  $6\frac{3}{4}d.$  to  $6\frac{1}{2}d.$  per oz. for Amsterdam.

**TARTARIC ACID.**—Very quiet and without change in prices.

**TARTRATES.**—The makers on October 13 reduced their prices of *Rochelle Salt* to 78s. per cwt. in 5-cwt. casks and 81s. in 28-lb. parcels; *pulv. Seidlitz* is 65s. 6d. to 67s. 9d., according to packing.

**TOLU BALSAM**, in large tins, is 2s. 1½d. per lb. c.i.f. and 2s. 3d. spot; small tins 2s. 6d. spot.

**TRAGACANTH.**—Firm. A good deal of business has been passing, and 16l. 10s. has been paid for fine seconds.

### London Drug-auctions.

To-day new and old goods were offered, and the buying was fairly good on the whole. *Ipecacuanha* and *rhubarb* were in short supply, and the former was dearer by 6d. per lb. The following table summarises the offerings and purchases:

Offered Sold			Offered Sold		
Agar-agar .....	1	1	Gurjun balsam.....	198	198
<b>Aloes—</b>			<b>Ipecacuanha—</b>		
Cape .....	81	57	Cartagena .....	2	0
Curaçao (boxes) ..	3	0	Matto Grosso .....	14	14
Socotrine (kegs) ..	34	0	Jalap .....	10	0
Zanzibar .....	17	0	Kamala .....	5	0
Ambergris .....	3	0	Kola .....	11	11
Ammoniacum .....	14	14	Lime-juice .....	23	0
Annatto-seed .....	29	0	Lime oil.....	11	2
Antimony (cr.).....	50	*20	Myrrh.....	59	0
Areca .....	29	23	Nux vomica .....	16	0
Asafetida .....	49	0	Olibanum .....	50	0
<b>Benzoin—</b>			Orange-peel .....	8	0
Palembang .....	25	25	Pareira brava .....	39	39
Sumatra .....	46	30	Patchouli-leaves ..	8	0
Bachu .....	42	1	Puree .....	5	0
Calumba .....	419	271	Quince-seed .....	12	3
Camphor .....	40	3	Quinine (Java).....	2	2
Cinella alba .....	10	0	Rhubarb (China)....	30	9
Cannabis indica .....	23	0	Rose-petals .....	1	0
Cantharides (Ch.) ..	7	7	Sarsaparilla—		
Cardamoms & seed ..	206	121	Grey Jam.....	17	17
Cascara sagrada .....	60	0	Lima-Jam.....	12	12
Cascarilla .....	33	0	Native Jam .....	11	7
Cassia fistula .....	2	2	Scammonium (bxs.) ..	4	0
Cassia oil .....	5	0	Scammony-root .....	28	0
Castorum .....	3	0	Seedlac .....	129	0
Cinchona .....	6	0	Senna and pods—		
Cinnamon oil .....	2	0	Alex .....	91	23
Civet .....	5	0	Tinnevely.....	461	368
Clove-leaf essence ..	1	0	Squill .....	38	30
Coca-leaves .....	4	4	Sticklac .....	45	0
Colchicum-root .....	5	0	Tamarinds .....	76	12
Colocyath and pulp ..	12	0	Tonka beans .....	2	0
Coriander-seed .....	8	0	Tragacanth .....	5	4
Cubebs .....	92	0	Turmeric .....	350	0
Cuscut .....	64	0	Wax (bees')—		
Cuttlefish-bone .....	143	0	Chilian .....	25	0
Digitalis-leaves .....	5	0	China .....	12	0
Dragon's-blood.....	35	1	East African.....	119	13
Ergot .....	3	0	East Indian .....	11	0
Fennel .....	149	0	Jamaica .....	29	15
Galls .....	5	5	Madagascar .....	264	*30
Gamboge .....	27	4	Morocco .....	33	8
Galacium .....	2	2	Mozambique .....	36	0
Gum acacia .....	112	1	Soudan .....	10	0
<b>Honey—</b>			Spanish .....	4	0
Jamaica .....	81	7	Zanzibar .....	15	15
N.Z. .....	89	10	Wax .....	6	0

\* Sold Privately.

**AGAR-AGAR.**—One bale of common strip, rather dark, sold at 1s. without reserve.

**ALOES, CAPE**, were rather firmer for fine qualities, but rather easier for the commoner qualities. Of 81 cases offered 57 sold; fine hard bright at 34s., good ditto 33s., bright cindery 31s. to 32s., bright softish 30s., dull drossy 28s. to 30s., ordinary, mixed with dirt, at 25s. *Zanzibar*.—15 cases dry hard aloes in cases, blocky, some with leaves, were withdrawn at from 67s. 6d. to 77s. 6d. East Indian Socotrine in kegs, 34 offered, and all retired at 62s. 6d. for softish to 72s. 6d. for harder kind.

**AMMONIACUM.**—All that was offered was sold at well-maintained prices; 8 bags of fair, blocky, mixed tears went at 68s. per cwt., 4 bags of fair blocky at 65s., and scrapings of bags containing some good tears at 60s.; a bid of 47s. 6d. was refused for 1 bag of dark blocky.

**ANNATTO-SEED.**—Nothing sold, 27 bags being withdrawn at 2½d. to 3d. for fair West and East Indian.

**ANTIMONY.**—A lot of 20 cases crude sold privately, and 16l. was wanted for the remainder offered. There

has been some talk during the past few days as to whether the market for this commodity may not eventually be materially affected either by the proposed formation of another combination or the question as to how far the market's resources may be curtailed by an extension of the troubles in China. So far the tendency has been but little influenced by either of these factors, at any rate as regards the market for the refined product, which as a matter of fact is still rather dull, with prices but little above the worst seen this year. Concerning the intended creation of a fresh combine on a more elaborate and comprehensive basis than the one which came to grief months ago, there appears to be some foundation for the rumours recently circulated to that effect. The inquiries which we have made from certain English refiners who were chiefly responsible for the breaking up of the old combine have elicited the fact that they have already been approached by German interest on the subject, but so far no negotiations have yet been opened up. The prices quoted for Chinese crude antimony are now very wide and unreliable because of the Chinese troubles. It remains to be seen whether future supplies from China will be seriously interfered with. Some people think this is likely to be the case, as the large mines are situated within the affected area. It may be recalled that when supplies were practically cut off in consequence of the Russo-Japanese war the price of antimony rose by leaps and bounds, and eventually reached about 130l. for refined owing to acute scarcity.

**ARECA.**—One parcel of 8 bags medium to bold sound Ceylon sold at 15s. subject and 15 bags slightly wormy sold at the same price.

**ASAFETIDA.**—Only very ordinary quality offered, but there was no demand; 34 cases sandy gum are held for 50s., and for a further 15 of stoney gum 70s. was the buying-in price.

**BENZOIN.**—Nine cases fair Sumatra seconds, with good fracture, sold at 7l. 10s., while for ordinary Palembang, with corky ends, 67s. 6d. to 71s. was obtained.

**BUCHU-LEAVES.**—There was practically no demand, and the whole of the 42 packages offered were withdrawn with the exception of a small bag of fair green short round, which sold at 4s. Two bags round and one of longs sold privately. The remainder were bought in at from 4s. 3d. to 4s. 6d. for short round, 1s. 9d. to 1s. 10d. for ovals, and 1s. 6d. to 1s. 10d. for longs. No really good genuine longs were shown, for which there is a demand.

**CALUMBA** seems weaker. A total of 409 packages was offered, of which 261, offered without reserve, were sold. This common stemmy natural root was rather poor, and it fetched from 11s. 6d. to 12s. 6d. No bids could be obtained for the other lots of better quality, and they were withdrawn.

**CAMPHOR.**—Three cases of ¼-oz. tablets Japanese refined sold at 1s. 9d.

**CANNABIS INDICA** is unchanged at 5s. to 5s. 2d. for genuine tops. *Marmogoa* tops might be bought a little under that price, but there seems no inclination on the part of buyers to bid.

**CARDAMOMS** sold irregularly, finishing up firmly on the dearer side; 206 packages were offered, and many sold. Ceylons, extra bold pale 3s. 6d., palish ditto at 3s. 3d.; bold pale fruit, somewhat shorter, 3s. to 3s. 2d.; medium ditto 2s. 6d. to 2s. 9d.; small 2s. 5d. to 2s. 8d., medium brown at 2s. 4d., splits, bold, 2s. 5d. to 2s. 6d. *Malabars* sold at 2s. 2d. *Decorated seeds* were much wanted; sales were made at 2s. 8d. for good Ceylons, and a small case of grey seeds at 2s. 6d., but 2s. 9d. was paid later for fine seeds, and 10 cases good E.I. are held for that figure, 2s. 8d. being refused.

**CASCARA SAGRADA.**—Strong. For 1907 medium to thick fair bark 42s. 6d. was wanted.

**CASSIA FISTULA.**—Two bags West Indian pods, few ratty, sold at 18s. 6d. per cwt.

**COCA-LEAVES.**—Ceylon were easier, 4 cases selling at 1s. 4d. for fair sound green, and 7d. to 11½d. for damages.

**COLOCYNTH.**—Of fine pale apple 8 cases are held for 1s., and for 4 bales rather darkish pulp 6d. is the limit, the market for this article being much better.

**DRAGON'S-BLOOD.**—Fine reboiled gum continues to be exceedingly scarce and much wanted. Four cases fair dullish lump is limited at 6*l.* 10*s.*; 15 cases of good reeds retired at 10*l.*, and 16 cases of duller quality at 9*l.* The only kind sold was lump pickings of indifferent colour at 6*l.* 15*s.*

**GALLS.**—The 5 bags which sold were Bussorah galls, small blues fetching 57*s.* 6*d.* and mixed light and dark 40*s.*

**GAMBOGE.**—Of 27 cases, 1 case Siam pipe sold before auction, and 3 cases of blocky Siam pipe mixed with dark drossy in auction at 9*l.* 17*s.* 6*d.* to 10*l.* 15*s.* Four cases Saigon did not sell, 35*s.* being wanted.

**GUAIACUM.**—Two casks of good glassy block sold at 1*s.* 3*d.* per lb.

**GUM ACACIA.**—Ninety bags of Soudan offered, and none sold, the limits being 65*s.* for soft pale sorts, 55*s.* for palish glassy ditto, and 53*s.* for reddish. Ten bags brown Barbary are held for 45*s.*, a bid of 44*s.* being refused. Two bundles damaged gum, gunny adhering, sold at 16*s.*

**GUM AMMONIACUM** in strong demand. Eight bags yellow drop with small and dust sold at 68*s.*, 4 bags palish block at 65*s.*, and 1 bag drop and dark blocky pieces at 60*s.*

**GUM MYRRH.**—Nothing sold. For 25 bags dark chips, bean-size, 37*s.* was refused, 40*s.* being the limit. Eight bales blocky Somali sorts and 15 bags Aden ditto were withdrawn at 52*s.* 6*d.* to 55*s.*

**GURJUN BALSAM.**—The sale of 198 drums was without reserve, and the prices obtained were 2*d.* to 2½*d.* per lb.

**HONEY.**—Jamaica was slow of sale, and, like New Zealand, was mostly withdrawn. Dark amber Jamaica sold at 28*s.* to 29*s.* Pale yellow setting New Zealand fetched 31*s.*

**IPPECACUANHA.**—Matto Grosso sold well at an advance of 6*d.* to 7*d.* The quality of the 14 bales offered, which were all sold, was good all round, and the first bid was made at 7*s.* 11*d.*, rising rapidly to 8*s.* 8*d.* In *Cartagena* variety a good business has been done since the last auctions, and 9*s.* is asked for the 2 bags offered in auction. It is very rare for *Cartagena* to be at a higher figure than Rio. The Rio Minas variety was not offered, but 8*s.* 3*d.* to 8*s.* 6*d.* is understood to be spot value for this kind now.

**KOLA-NUTS.**—Eight barrels of fair bold West Indian sold at 3½*d.*, at which price 8 barrels were sold of good quality in spice-sales on Wednesday. This is a drop of ¼*d.* per lb. on last sale or ex-sale price. One package of whole nuts sold dearly at 4½*d.*, and 2 cases of ordinary quality green nuts at 2*d.*

**LIME OIL.**—Two cases of hand-pressed sold at 5*s.* 6*d.* per lb.

**PEREIRA BRAVA.**—Thirty-nine bags of fair quality sold at 5*l.* 10*s.* This article has been sold recently at 120*s.* It has been scarce in U.S.A., and the new is now coming along.

**QUINCE.**—A small bag of good Cape seed was sold at 2*s.* 9*d.*, and poor seed mixed with quince-cores at 1*s.*

**QUININE.**—Two tins, each containing 100 oz. of Java quinine sulphate, sold without reserve at 6*d.* per oz.

**RHUBARB.**—Thirty cases were offered and 9 sold. High-dried flat medium to bold dullish coat and fracture at 8½*d.* to 8¾*d.*, better coat pinky fracture at 10*d.* Shensi 1 case medium round fair coat and fracture is held for 2*s.* 3*d.*, and for a case medium round dull coat and fracture Canton, part wormy, 1*s.* 2*d.* was paid. Rough round high-dried has been very scarce for some time past. Orders at 6½*d.* per lb. c.i.f. have been sent out to China and brought no reply, the trouble in that country being doubtless partly responsible for this.

**SARSAPARILLA.**—Fair grey Jamaica sold at firmer rates, 1*s.* 8*d.* to 1*s.* 10*d.* being paid; 1*s.* 4*d.* was obtained for mouldy and sea-damaged root. Good red and yellow native mixed sold at 1*s.* 1*d.*, and some yellow lots at 9*d.* to 11*d.* Fair Lima, part chunky, sold at 1*s.* 1*d.* to 1*s.* 2*d.*

**SENNA.**—Tinnevely was dearer for the better grades. 461 bales offered were practically all sold. Bold green sold from 5½*d.* to 8½*d.*; medium to bold ditto, 3¾*d.* to 4½*d.*; medium green, 3¼*d.* to 3½*d.*; greenish ditto, 2¾*d.* to 3*d.*; small green,

2½*d.* to 2½*d.*; ditto greenish, 2*d.*; yellowish green, 1¾*d.* Pods, 1¾*d.* to 2*d.* Alexandrian, 91 packages offered and 23 sold; broken leaf at 3¼*d.* to 3¾*d.*; damages at 2½*d.* to 3½*d.* Pods at 4½*d.*, though 6*d.* and 7*d.* would have to be paid in other quarters.

**SQUILLS.**—Eight bales of good pale dry were bought in at 2½*d.*, and 30 bales of brown rather damp sold without reserve at ¾*d.* per lb.

**TAMARINDS.**—Of the Antigua offered 12 packages sold at 10*s.*

**TRAGACANTH.**—The damages were sold without reserve at 67*s.* 6*d.*, 75*s.*, and 80*s.*

**WAX (BEES')** was in good supply; a fair amount of business was done at firm rates. Jamaica is in good demand, fair to good sold at 7*l.* 5*s.* (part dark) to 7*l.* 10*s.*; for East African, ordinary 6*l.* 15*s.* was obtained, and dark Zanzibar 6*l.* 15*s.*

### Continental Drug and Chemical Markets.

**CASCARA SAGRADA.**—The Hamburg market is steady, with sales of goods afloat at m.86 per 100 kilos. For spot transactions small lots have been dealt in at m.90.

**CITRIC ACID.**—From Hamburg the market is reported to be somewhat firmer, spot offering at m.2.90 per kilo. Delivery for 1912 is quoted at m.3 per kilo. net cash.

**CONDURANGO** is offered at very irregular prices. Small supplies have been received, apparently of last year's crops, and found purchasers at somewhat reduced prices. Sales of spot goods have been made at m.110 to m.112.50, ex warehouse.

**ERGOT.**—The demand at Hamburg has considerably increased, and prices are firm. Spanish is being quoted at m.9.75 per kilo., with Russian at m.9.50 per kilo. for early delivery.

**IPPECACUANHA.**—Cartagena has been in fair demand at Hamburg and m.18.50 per kilo. has been paid; the supply offered is unusually small. Rio is quoted m.17.75 per kilo.

**KOLA.**—Reports from Hamburg state that the market has been very irregular, especially as regards halves, the latter being bought at m.80 per 100 kilos. Quarters are purchasable at m.77.50.

**LYCOPodium.**—Considerable sales have taken place at the present cheaper prices. Cases are quoted m.3.90 per kilo. and bags at m.3.80.

**ORRIS.**—Even at the beginning of the year the crops of Florentine orris promised to be poor, and according to the latest reports this year's yield will not only fall short of last season as regards quantity, but also as regards quality. The somewhat low market price of from m.115 to m.120 per 100 kilos. for present stocks is likely to advance.

**OXALIC ACID.**—The position at the present low rate of value is steady, and to this is attributed the fact that the same prices are being maintained for deliveries in 1912.

**QUILLAIA.**—The Hamburg market is quiet, buyers holding off. The Chilean market continues steady, and m.52 per 100 kilos. has been refused. As the remainder of the last crop is in firm hands, it is improbable that there will be any decline.

### Russian Wormseed.

Mr. J. D. Bieber, of Hamburg, has issued a circular letter in which he states that it is common knowledge that the Russian Government has for the past two years leased the whole output of wormseed to a syndicate, which undertakes the manufacture of santonin in Turkestan. As regards the crop of wormseed, this is collected in an area which may approximately be compared with that of the Grand Duchy of Oldenburg (2,480 square miles), so that it can readily be understood how difficult it is to protect a district of this size from thefts. On several occasions Persian and Tartar merchants, travelling through the steppes, have stolen large quantities of wormseed and placed them on the market. For the protection of the growers the Russian Government has now passed a regulation, according to which wormseed may be exported from Russia. Illicit traders are now endeavouring to sell as wormseed other *Artemisia* descriptions, which strongly resemble the flower-heads of the true *Artemisia maritima* as regards appearance, smell, and taste. It is stated that large quantities of this spurious wormseed have been exported, so that caution should be exercised in buying, as the seed contains no anthelmintic properties, and, incidentally, is quite worthless.

### Port of London Authority.

Although no official statement has been made on the subject, it is quite understood that the scheme long contemplated by the Port of London Authority of establishing new

headquarters to accommodate all the departments, which are at present scattered over a considerable area, is about to be carried out. An extensive purchase by the Authority at Tower Hill (Savage Gardens) appears to indicate that the site of the new building is to be there. At the time the new Authority took over the Port there was a rumour that the Crutched Friars drug warehouse was to be removed to a less central position, to make way for the administrative offices, but happily it did not materialise.

### German Spirit Production.

The production of spirit in Germany during the twelve-month ending September 30, 1911, amounted to 3,473,707 hectolitres, compared with 3,650,177 hectolitres and 4,265,231 hectolitres during the twelve months ending September 30, 1910 and 1909 respectively. The consumption of spirit for manufacturing purposes amounted to 1,405,972 hectolitres in the year ending September 30, 1911, compared with 1,888,269 hectolitres and 1,485,145 hectolitres in the year ending September 30, 1910 and 1909 respectively. The stocks of spirit, amounting to 509,189 hectolitres, compared with 485,285 hectolitres at this date last year, are normal for the season; new supplies, however, are required, and it remains to be seen whether the arrivals will come in as early as necessary in view of the high price of raw material and the small potato crop.

### Zanzibar Cloves.

The officials of the Zanzibar Government estimate that the clove crop for the season of 1911-12 will exceed that for the season of 1908-9, when the clove deliveries amounted to slightly more than 615,418 frasilas (21,500,000 lb.). The clove season runs from July to June. Picking this year will begin early, and should be in full activity in October. The following figures show the deliveries of cloves at the Customs House in Zanzibar for the past sixteen calendar years and the past sixteen seasons. A frasila = 35 lb.

#### DELIVERIES FOR THE LAST SIXTEEN YEARS.

Year	Zanzibar, frasilas	Pemba, frasilas	Total, frasilas
1895	146,396	391,460	537,857
1896	119,787	237,690	356,877
1897	90,676	210,954	331,630
1898	60,363	308,485	368,848
1899	139,320	344,764	484,084
1900	49,180	248,935	298,115
1901	49,977	294,709	344,686
1902	58,438	235,106	293,544
1903	146,308	172,812	319,119
1904	36,550	387,846	424,396
1905	91,448	374,895	466,341
1906	189,199	209,211	399,409
1907	179,137	460,051	638,188
1908	141,850	299,952	441,802
1909	102,224	435,001	537,225
1910	93,814	221,420	315,234

#### DELIVERIES FOR THE LAST SIXTEEN CROP SEASONS.

Season	Zanzibar, frasilas	Pemba, frasilas	Total, frasilas
1895-6	165,901	413,124	579,025
1896-7	84,592	224,362	308,954
1897-8	44,941	150,703	195,644
1898-9	149,417	481,565	630,982
1899-1900	59,741	206,640	266,381
1900-1	37,567	201,192	238,759
1901-2	43,626	321,599	365,226
1902-3	175,420	251,780	427,200
1903-4	28,369	96,792	125,162
1904-5	79,860	675,685	755,543
1905-6	181,536	109,951	291,487
1906-7	56,833	202,633	259,466
1907-8	213,667	541,998	755,665
1908-9	165,733	449,685	615,418
1909-10	109,683	300,042	409,725
1910-11	52,002	139,301	191,303

"SIR ALFRED MOND, so it is stated on the unimpeachable authority of the Welsh Vernacular Press, has despatched 150 kegs of macassar oil to be distributed on Guy Faux day to the children of the Cardiff Band of Hope." This is one of "Punch's" latest jokes.

LEGHORN EXPORTS.—Among those of interest during 1910 were: Boric acid, 1,315 tons (1909, 1,257 tons); borax, 84 tons (1909, 174 tons); mercury, 4,180 cwt. (1909, 6,223 cwt.); and olive oil, 140,650 cwt. (1909, 92,158 cwt.). The percentage of exports to British destinations was as follows: Boric acid 24, borax 20, mercury 81, and olive oil 17 per cent.



### Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

### Tasteless Cascara Preparations.

SIR,—With reference to the remarks of "Xrayser II." on my article on tasteless extract of cascara sagrada, I have carefully re-read Dr. Jowett's research on cascara, and I can see no reason for altering the statement which "Xrayser II." takes exception to. If my critic reads Dr. Jowett's paper again I think he will find the writer carefully refrains from saying there is no glucoside present in cascara. I have reason to believe there is; but whether there is or whether there is not, I can recommend the preparation as a useful addition to the stock of practising pharmacists. I am, yours faithfully,

Brisbane, August 8.

R. C. COWLEY.

### Lin. Terebinthinæ.

SIR,—If the liniment is not wanted immediately the best way is to dissolve the camphor in the turpentine, dissolve the soap in the water, put both in a bottle, and shake once or twice a day for a day or two. Result: a beautiful preparation, neither too thick nor too thin and, above all, strictly B.P.

Bradford, October 14. JOHN W. A. PRESTON-JACKSON.

SIR,—I have followed with considerable interest the controversy on this subject, and have experienced the same difficulty as "Eugene Aram"—viz., when I have made my liniment it has either turned thick at once or has done so on keeping three months. I have tried the three ways given in Lucas's "Pharmacy," and have followed minutely the directions given therein, and have been successful in making a liniment sometimes thin and at other times thick. I quite agree with "Eugene Aram" that processes have nothing to do with the thickening, and that the fault lies with the *sapo mollis*, which contains too much alkali. I have tried "Eugene Aram's" device of adding dilute hydrochloric acid to the liniment, and it has acted splendidly. I see no objection to it either, and for Mr. Wenmoth to complain of it is mere "hair-splitting." I would remind Mr. Wenmoth that hypophosphorous acid is always added to liquor pro syrup. ferri iodid. in order to prevent decomposition. Moreover, this device of adding preservatives is sanctioned by such a reputable house as Messrs. Parke, Davis & Co., who add  $\frac{3}{16}$  grain of acetanilide to each ounce of peroxide of hydrogen solution. The B.P. upholds the principle also when absolute alcohol is added to preserve chloroform. If a *sapo mollis* is not B.P. to start with, and it contains too much alkali, it is foolish not to correct the alkalinity. Thirty minims of dilute acid, as "Eugene Aram" suggests, cannot hurt the patient, as in the liniment it would occur as soluble chlorides of the alkalies present. When the night-bell goes at 10 P.M. and a patient waits for a bottle of lin. tereb., and you come to the shop-round and find the liniment is too thick to pour out. I for one will not hesitate to add 30 minims of acid and get my customer served.

Yours truly,

CHEMICUS. (195/52.)

["Eugene Aram" also writes in defence of his suggestion, which is quite legitimate and practical.—EDITOR C. & D.]

### National Insurance Bill.

SIR,—I see in the issue of the C. & D. for October 7 that "Xrayser II." asks a pertinent question in rather an impertinent manner—viz., What do the drug-store proprietors consider their rights under the Insurance Bill?

The above are a numerous and important body of business men, and they ask only to be allowed to continue, in the way they have done for years past, their business in which they have placed their energies and capital.

Yours truly,

A DRUG-STORE PROPRIETOR. (195/30.)

#### Panopepton.

Mr. W. Johnston, Secretary of the Chemists' Defence Association, writes supporting Messrs. Fairchild Bros. & Foster's reminder (*C. & D.*, October 14, index folio 571) that since June 1910 it has been necessary to have a wine-licence for the retail sale of panopepton, which "may be dispensed by chemists who have not a wine-licence as a constituent of a *bona-fide* prescription given by a duly qualified medical practitioner." The Association have heard of numerous cases among members in which this reminder has been necessary.

### Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "*C. & D.*" readers.

Tr. Quin. Ammon. Draughts.

*J. D.* (217/25) writes: It might interest your readers to know the following little idea when giving a dose of tinct. quin. ammon. First measure a teaspoonful (which is quite sufficient), and then run in half a wineglassful of soda-water from a syphon. A perfectly clear and pleasant liquid is formed, much better than the dose with the unsightly precipitate. It is appreciated by the customer. [Mr. G. Lanan proposed a modification of tr. quin. ammon. ("Pharmaceutical Formulas," p. 806) which mixes clear with aerated water. The formula is: amm. carb. gr. 325, quin. sulph. gr. 160, aq. dest. 5x., s.v.r. 5x.—Ed.]

#### Honours for Cultivators of Chemistry.

Mr. Algernon Warren writes: Methinks more British pharmacists, depressed by the grinding of competition, and perhaps still more by the lack of public appreciation, would take heart of grace were they to be addressed by British ministers in similar terms of glowing eulogy to those adopted by the Hon. Calisano, Italian Minister of Posts and Telegraphs, in his expressions to the members of the Congress of Applied Chemistry at the inauguration of their second National Congress, viz.:

"Gentlemen,—With respect to the painful research after scientific truth and its applications—a form of research to which the whole world is now devoted, and which, as in the past century, so now in the new century and other centuries to come, will be, as it was, the torment and the glory of so many men who have volunteered for the sacrifice—I do not believe that I am in error in affirming that if it were possible to fix an honours grade for intelligent boldness and merit, one of the first positions would be assigned to the cultivators of chemistry."

### Legal Queries.

Consult the Legal Advice Section of "*The Chemists' and Druggists' Diary*," 1911, p. 435, before writing about your difficulty.

*Pepsin* (194/36).—The text of the Geneva Convention Act, 1911, restricting the use of the red cross was printed in the *C. & D.* of September 23, index folio 476.

*Kado* (194/69).—(1) See reply to "Irish Subscriber." (2) There is nothing dutiable on your quinine-and-iron tonic label.

*Beacon* (194/13).—You will find in our issue of September 9 an article on the new regulations regarding the sale of mineral acids, which regulations will also extend to liquid ammonia on February 1, 1912. In our correspondence columns of each of the issues since are replies to queries similar to yours.

*Thistle* (189/2).—The word "balsam" would make your preparation liable to Medicine-stamp duty (see *C. & D. Diary*, p. 447). The sentence, "These lozenges are highly recommended for the throat, chest, and lungs," does not make the lozenges liable, because the Revenue authorities declare that the mention merely of parts of the body does not make a preparation dutiable.

*Milka* (180/57).—A pharmaceutical chemist (Ireland) is perfectly entitled to analyse and report upon samples of milk. The acceptance of his certificates by a court of law depends upon their accuracy and his standing as an analyst. In Sale of Food and Drugs Acts cases the certificates of public analysts are accepted as evidence without the presence of the analyst, but in other cases analysts must be present to support their statements in the witness-box.

*Manufacturer* (185/90).—The regulations as to liquid ammonia come into force on February 1, 1912. Wholesale houses who put it up in 1d. bottles for retailers should use bottles "distinguishable by touch" for that purpose. That will meet the convenience of retailers, but is not obligatory upon wholesalers, as Section 5 of the Poisons and Pharmacy Acts, 1908, applies only to selling by retail. In selling by wholesale to retail vendors liquid ammonia in Winchester, they are not legally required to be "distinguishable by touch."

*Phoenix* (195/4).—The law as regards verification of weights is that the inspector is entitled to charge only for those which he restamps as correct. If he finds any weights incorrect he obliterates the stamp (for that no charge is made); if a tinsmith is present to adjust the weights, the owner of them pays the tinsmith for that; the next operation is verification and restamping by the inspector, for which he is entitled to charge the prescribed fee. All this you could have learned by reference to the *C. & D. Diary*, 1911, pp. 465-6 and saved yourself time and trouble.

*Pectis* (188/11).—The use of a trade-mark appropriated to a medicine, whether that trade-mark is registered or not, is regarded by the Revenue authorities as evidence that proprietary rights in it are claimed. Therefore such medicines are excluded from the exemption as to "known, admitted, and approved remedies." In the draft of your cough-elixir label, on which you name the medicinal ingredients of the preparation, the use of the trade-mark nullifies the disclosure, so that the elixir would have to be stamped according to its value. If you want to sell it unstamped, remove the trade-mark.

*Irish Subscriber* (185/51).—We do not undertake searches for the purpose of ascertaining whether particular words are protected under the Trade-marks Act or the Copyright Acts. Searches of the Trade-marks Register can be made in the Department of the Comptroller of Trade-marks, Chancery Lane, London, W.C., at the rate of 1s. for a quarter of an hour; but the cheapest way to ascertain whether a mark is registered or not is to apply for its registration on the 10s. form of application, which can be obtained through any money-order office. In the event of the word being registered, the applicant is promptly informed of the fact; if it is not registered and the word is registrable, the applicant is informed, so that he may proceed with the next stage of registration. You will find further particulars in the *C. & D. Diary*, p. 205.

*A. W. M.* (187/29) writes from Ireland to ask whether the duty he is called upon to pay for his wine off-licence is not too high. He had last year a house, shop, and yard, for the wine-licence on which he paid last year under the new licence rates 3*l.* He recently made internal communication between his premises and an adjoining house by breaking through the party wall between them, and he has now been called upon to pay a licence duty of 3*l.* 10*s.* He says that the annual value of the old premises was 42*l.*, and that of the added premises is 13*l.* He wishes to know if it is right to charge him licence duty on the combined annual values of both premises, namely 55*l.*, seeing that the part added is separately rated, and that he does not pay taxes on it. [There must be some mistake in the figures given for the valuation of "*A. W. M.*'s" premises. If they were valued at 42*l.* last year he ought to have paid 3*l.* 10*s.* for the wine off-licence, and if he is assessed this year at the combined figures, 42*l.* and 13*l.*, that is 55*l.*, his licence duty should be 4*l.* The rates of duty are for premises exceeding 30*l.*, but not exceeding 50*l.*, 3*l.* 10*s.*; exceeding 50*l.*, but not exceeding 75*l.*, 4*l.* In the case of premises internally connected, the licence duty is chargeable on the annual value of the whole premises so connected, unless any part is proved to the satisfaction of the Board of Customs and Excise to be used for any trade or business distinct from any trade or business carried on upon the premises by the licensee holder. As in this case the new premises are used in connection with the business carried on upon the old, the licence duty appears to be properly chargeable on the value of the two combined.]

### Miscellaneous Inquiries.

We do not as a rule repeat information given in this section during the past twelve months. When references are given to past issues, these should be consulted. Back numbers for the past five years can generally be obtained from our office at the published prices. We do not undertake to analyse and report upon proprietary articles.

*T. W. D.* (178/54).—WATER-SOFTENER.—This consists of sodium carbonate in silky crystals, the green tint being imparted during the process of manufacture. The salt can be obtained ready tinted from wholesale druggists.

*I. G.* (175/5).—All the three articles are perfectly well known, though old. You can get particulars about them in pharmaceutical reference-books.

*Rex* (207/33).—The only effective way To GET AN OLD BUILDING RID OF FLEAS is to have the rooms fumigated with hydrocyanic acid propagated from potassium cyanide in the manner described in the *C. & D. Diary*, 1910, p. 217. This is work which you, as a chemist, could undertake for a fee.

*Automatic* (183/28).—The ANISEED CORDIAL on p. 287 of "Pharmaceutical Formulas" is not a preparation for infants, but a liqueur. Elixir anisi on p. 590 is a medicinal preparation. A better preparation for children than either is the GRIPE-WATER, P.F. 20, which is as follows:

Sodii bicarb.	...	...	...	5j.
Spt. ammon. arom.	...	...	...	℥XL.
Syr. anisi	...	...	...	5j.
Aquam destillat. ad	...	...	...	5iv.

M.S.A.

To this may be added spt. anisi 5ss.

*Resin* (180/64).—UNGUENTUM RESINÆ.—In making this ointment in B.P. quantity our subscriber melted the resin and beeswax together in an enamelled-iron vessel over a naked gas-flame. The lard and olive oil previously melted together in a water-bath were then added. Instead of a homogeneous fluid resulting, about 4 oz. of a thick semi-fluid brownish mass was formed at the bottom of the pot, gathering round the stirring-stick, which would not mix with the supernatant fluid on stirring. If removed on the end of the stirring-stick the fluid solidified into a mass about the consistence and appearance of bals. tolu. The prolonged application of heat to the whole in a water-bath failed to effect solution or admixture. [We have experienced the same condition in this ointment when using, absently-mindedly, commercial pulv. resinae, the internal economy of which is occasionally somewhat complex. We have never met with the trouble when using clear pieces of resin ground down for the occasion. It may be that your difficulty is traceable to this cause. A resin insoluble in the lard and olive oil is indicated. The method of making which is outlined produces an excellent ointment when the ingredients are right.]

*R. M. H. W.* (169/68).—POWDER FOR LICE ON CATTLE.—This appears to be a mixture of powdered hellebore and chalk. Other medicaments employed in powder form are stavesacre, naphthalin, and powdered quassia.

*Bunion* (179/22).—CORN-CURE.—Your sample of liquid cornure is made on the lines of that given in the *C. & D.*, September 23, index folio 494, but is tinted red by the addition of a trace of rosein.

*J. G.* (173/46).—The information and advice given in these columns are for general use, and therefore we cannot undertake to write to you privately.

*Seraggy* (183/55).—FLESH-FORMING TABLETS.—We believe that digestion-promoting ingredients are employed in the various forms of medicament which are being offered for promoting the formation of flesh. Pepsin, pancreatin, and glycerophosphates are the most likely ingredients.

*G. M.* (Smyrna) (177/72).—We do not recognise a serum under the name you mention. If you will supply further details we may be able to assist you.

*A. T. B.* (177/69).—NON-POISONOUS NIT-OINTMENT.—We suggested a few months ago that an effectual ointment could be made by mixing ext. quassiae 5ij. with ung. ac. carbol. lb. j., but other recipes have been published containing ext. quillaia, saponin, or naphthalin.

*A. K. H.* (175/44).—POCKET INHALERS.—Various essential oils are used as the medicament in pocket inhalers, the oils being absorbed by cotton-wool or paper. It may be that you have some special kind in view.

*Pinus* (177/65).—PINE-PRODUCTS.—The information you require regarding pine-products is not, as far as we are aware, contained in one book. It can be found by referring to Thorpe's "Dictionary of Applied Chemistry," Gilde-meister and Hoffmann's "Volatile Oils," Hanbury and Flückiger's "Pharmacographia," and other books dealing with materia medica such as "The National Standard Dispensatory."

*O. H.* (177/14).—We cannot trace the formula you send. You could re-register the recipe in the *Chemists' and Druggists' Diary* if you so desire.

*C. J.* (178/31).—The difference of salary between an indoor and outdoor assistant is generally reckoned at 40% per annum.

*C. J.* (176/41).—WHITENING THE NAILS.—The powder which is mixed with hydrogen peroxide is chalk with a small proportion of putty-powder or kieselsguhr mixed with citric acid. The former acts as a polish as well as a vehicle for the bleaching liquid.

*J. P. B.* (180/54).—COLD-CREAM.—There is no way of preventing white vaseline from turning yellow after long exposure to the influence of light and air, but possibly the addition of a little sodium sulphite or potassium metaspulphite to the cold-cream would be an improvement. You will only be able to judge of the effect after keeping the cream for some time.

*A. R. B.* (175/65).—METAL-POLISH.—The basis of non-inflammable liquid metal-polish is benzine or petrol rendered non-inflammable by the addition of an eighth of its volume of carbon tetrachloride.

*J. T.* (178/68).—The honey should be strained to free it from wax, and the method you suggest is about the best practical way.

*W. W.* (175/3).—We do not undertake analyses, but could put you into communication with an analyst who would undertake the work.

*W. L.* (170/13).—AMERICAN GALENICALS.—The reference-books which would be most useful to you are "The National Standard Dispensary," published in this country at 31s. 6d. by Churchill, and "The Dispensary of the United States of America," by Wood, Remington, and Sadtler, published by the J. B. Lippincott Co. at 31s. 6d. These are both very bulky works, and it is possible that "The United States Pharmacopœia" and "The National Formulary" would meet your requirements.

*C. F. S.* (175/73).—Sodium-silicate solution is not suitable for preserving fruit because it would need removing before the fruit could be eaten, and this is not practicable. Sodium silicate is not poisonous in the ordinary sense of the word, but it is detrimental to the human economy. When employed for preserving eggs the chemical, being only used for hermetically sealing the shells, is not taken internally.

*E. W. R.* (168/71).—COLOURING CABBAGE.—Your customer cannot hope to compete with Nature in converting ordinary cabbage into red cabbage. The latter is a distinct variety of *Brassica oleracea*, and to sell in pickle form dyed common cabbage in its place would expose the seller to prosecution.

*Inquirer* (193/20).—Your SPIRIT-VARNISH is stronger than usual, 2½ lb. of resins to the gallon being the average. It is quite suitable for golf-clubs, but the wood should get a coat of size the night before the varnish is applied. You cannot be wrong in changing the sandarac 8 oz. to sandarac 6 oz. and soft gum thus 4 oz.

*Milker* (180/57).—TEXT-BOOKS ON MILK-ANALYSIS.—H. D. Richmond's "Dairy Chemistry" (Griffin, 16s.) and J. A. Wanklyn's "Milk Analysis" (Paul, 5s.).

### Exemption from Medicine Stamp-duty.

We propose to reserve in *The Chemists' and Druggists' Diary* for 1912 a limited amount of space for subscribers' formulas for known, admitted, and approved remedies. Our *Diary* was the first publication of the kind approved by the authorities for this purpose. Each formula (with dose in the case of internal medicine) should be written on a piece of paper by itself. Early despatch to the Editor of the *C. & D.* is desirable.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," October 15, 1861.

### International Exhibition of 1862.

The Chemical and Pharmaceutical department will be particularly well filled. It could not be otherwise with a national committee consisting of Faraday, Brande, Graham, Hofmann, Warren de la Rue, W. A. Miller, Lyon Playfair, Redwood, and Stenhouse, besides a London trade committee, having the names of S. L. Howard, Henry Coe, Heywood, Bastick, D. Hanbury, S. Piesse, and C. Davy, on its roll. The pharmaceutical division will be under the direction of Dr. Redwood, in conjunction with the Pharmaceutical Society, which will exhibit a complete series of preparations. The chemical manufactures, more especially the brilliant new dyes obtained from coal tar, will be exhibited in great abundance. An effort is about to be made to form a systematic collection of chemical products of a purely scientific nature, and we trust that it may be crowned with success.



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, OCTOBER 21, 1911.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

# 469

## REPLIES RECEIVED AT THIS OFFICE UP TO WEDNESDAY

morning Oct 18, to advertisers under a **NOM-DE-PLUME**  
in last week's **CHEMIST & DRUGGIST SUPPLEMENT.**

*This proves that IT PAYS TO PAY for advertising in C&D Supp.*

OFFICE: 42 CANNON ST. LONDON. E.C.

## CHEMISTS' TRANSFERS.

### Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of **SALE, PURCHASE, and VALUATION.**

—LONDON, S.E. (Residential Suburb).—Middle-class Business, ready money; returns between £950 and £1,000 per annum; profit £300; attractive shop, well fitted and stocked, above the average; price £775.

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—LONDON, S.W.—Ready-money Business, Retail and Dispensing; returns average £800 per annum; gross profit 43 per cent.; attractive shop, single fronted; full investigation invited; price £610.

—LONDON, W. (Residential District).—Good middle-class Business, Retail, Dispensing, and Optical; returns under manager between £850 and £900 per annum; roomy shop, corner position; comfortable residence; to effect a speedy transfer the sum of £100 will be accepted.

—LONDON, S.E.—Neglected Business, Retail and Dispensing, small Mineral-water plant; returns last year £760, at fair prices; stock and fixtures valued by vendor at £750; price £500.

—WEST OF ENGLAND.—Good-class Cash Retail Business; returns exceed £800, at fair prices; modern-fitted shop, with good se attached, garden; price, to include goodwill, stock, and fixtures, £600.

—HOME COUNTY.—Unopposed Business; returns about £400; income £190; rent moderate; long lease; price £250, or reasonable offer.

8.—WESTERN COUNTY.—Retail and Dispensing Business, established 1832; returns under manager about £1,000 per annum; average net profit £250 to £300; large shop, fitted in mahogany and plate-glass; rent moderate; held on lease; price £875.

9.—MIDLANDS (Market Town).—Mixed Business, very old established; returns average £1,350 per annum; gross profit 50 per cent.; several good Proprietaries are included; terms, valuation of stock and fixtures and sum for goodwill to be arranged equitably.

10.—YORKS.—Good-class Retail and Dispensing Business; returns, present rate, about £1,500; yearly increase; gross profit £610; house has 9 rooms, private entrance; price £1,200.

11.—WEST OF ENGLAND.—Retail and Dispensing Business, capably situate in centre of town; present returns between £30 and £40 per week; rent £67 yearly; held on lease; terms, £100 and valuation of stock and fixtures.

12.—LANCS.—Light Retail Business; no heavy trade; returns last year £748; scope for development; net profit about 20 per cent.; rent £26, which includes residence; terms, valuation of stock and fixtures.

13.—SUSSEX.—Unopposed Business; established 70 years; returns average £900 per annum, and the net income £320; large, well-appointed shop and residence, small garden; terms, goodwill £100, stock and fixtures at valuation.

14.—EASTERN COUNTY.—Well-established Business; returns £728, increasing; net profit about £220; the shop is capably situate in the centre of town; good opening for energetic man; price, to include freehold premises, £850.

Particulars of any of the above will be furnished on application.

**N.B. NO CHARGE TO PURCHASERS.**

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**

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*Licensed Valuers,*

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

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- 1.—STAFFS.—Good-class Light Retail in town of 25,000; returns £680; rent £45; good house; price £500.
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- 3.—MANCHESTER (Suburb).—Good-class Light Retail and Dispensing; net profit £245; in present hands 50 years; good house; good opportunity for smart pushing man; price £475.
- 4.—YORKS.—Good-class Light Retail and Dispensing in suburb of important town; returns £965; net profit £300; price £900, or goodwill and valuation terms arranged.
- 5.—LEICESTERSHIRE.—Light Country Retail; splendid opportunity for qualified man; returns £560; low rent; valuation £250.
- 6.—DURHAM.—Returns £855 (have been £1,100); net profit £220; price £600; rent £35; in present hands 17 years; good working-class Light Retail.
- 7.—SOUTH CHESHIRE.—Light General Country Retail; returns £1,400; moderate rental; ill-health sole cause of disposal; price £750.
- 8.—GLAM.—Returns over £800; net profit £230; unopposed; Colliery district; rent £30; price £450.
- 9.—YORK.—Returns £650; net profit £200; a bargain; price £175.
- 10.—LONDON, S.E.—Returns £1,000; excellent position; large handsome shop and good house attached; high-class Cash Retail; books kept by an accountant; price £500, which is much less than valuation; strongly recommended.
- 11.—A first-class Retail and Dispensing Business for Disposal, together with Mineral Waters; returning £1,800 annually, at a net profit of £520; situated in good-class town; further particulars upon application.

### BUSINESSES WANTED

in all parts, those requiring £1,500 to £2,500 capital preferred; buyers waiting; Yorks, Midlands, and South-West of England; correspondence invited.

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GOOD Business thoroughfare, North London; middle-class Cash Retail and Prescribing; returns over £600; vendor retiring; house 6 rooms; rent £70; lease; young man can very quickly extend; no side-lines; price £350, or offer.

AN old-established Business in busy thoroughfare, South London, doing continuously increasing return, now over £900, at good prices; nice shop, good house, private entrance and garden; rent £60; price, value of stock and fixtures; fullest investigation; net profit over £300 (proof given).

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcement is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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- 1.—HOME COUNTY (Market Town).—Old-established good-class Retail with valuable Proprietaries; returns £1,000; good profits; large shop, well fitted and stocked; large residence; price £800.
- 2.—SUSSEX.—Unopposed good-class Retail Business; charming locality; returns about £650; net profit about £250; plenty of scope in energetic hands; price £550; good introduction.
- 3.—YORKS (Inland Health Resort).—Light Retail and Dispensing Business; over 3,000 Prescriptions yearly; returns £768; net profit £260; good house and Pharmacy; valuation about £600.
- 4.—HERTFORDSHIRE.—Cash Retail and Prescribing Business in growing town; returns £750; net profit £258; good house; attractive shop, fully stocked; owner retiring; price £620, about valuation.
- 5.—NORFOLK.—Unopposed Light Village Business; no heavy trade; returns £700; net profit £300; low rent; nice house and garden; well fitted and stocked; price £500.
- 6.—LONDON, S.E.—Light Retail and Dispensing; returns £1,400; net profit £314; books properly kept; price £1,000, or offer.
- 7.—LONDON, W. (few miles out).—Returns £800; splendid position; handsome shop, well stocked; price £375, simply valuation.
- 8.—LONDON, S.W.—Good residential suburb; no near opposition; returns £800; net profit £220; modern shop; price £550.
- 9.—KENT (Death Vacancy).—Old-established Light Retail with good Proprietaries; returns under manager average £650; net profit £220; plenty of scope; excellent premises; stock and fixtures worth over £400; price £500.
- 10.—BOURNEMOUTH.—High-class Dispensing Business, in splendid position; returns over £700 at best prices; plenty of scope; price £350, or first reasonable offer.
- 11.—MIDLANDS.—Good-class Light Country Retail; returns £500; net profit £190; no opposition; low rent; stock and fixtures worth £240; price £250.
- 12.—YORKS (West Riding).—Profitable Light Retail Business, neglected; returns £500; plenty of scope; net profit £200; good house and shop; price £400, or valuation.
- 13.—LIVERPOOL.—Sound Light Retail; returns about £500; no side-lines; net profit £160; good house and large shop; stock and fixtures worth fully £250; price £200; part can remain.
- 14.—RICHMOND (near).—Good-class Retail and Dispensing; returns £1,000; net profit £300; fully stocked; price £675.
- 15.—LONDON, N.W.—Light Retail and Dispensing; returns about £950; good house; low rent; well stocked; price £625.
- 16.—LONDON, N.—Light Retail and Dispensing; returns £750; net profit £248; books properly kept; price £500; full value offered.

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# BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

## COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

LETTERS in reply to Advertisements may be addressed to this Office, and will be forwarded to the Advertiser for an additional charge of 6d.

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**LANCASHIRE.**—In pleasant, prosperous town; well-established, profitable Light Business; returns £600; handsome shop, well fitted and stocked; good house, private entrance; price £320, or valuation. Apply, Hirst, Brooke & Hirst, Ltd., Leeds.

**LONDON, N.**—Lock-up Pharmacy; bold position, main road; short hours; returns near £800; rent £25; good opening for Dentistry and Photography; valuation only, about £300; worth seeing. Address "Owner," 119 Mount View Road, Crouch Hill, N.

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**NORTH WALES.**—A Chemist's Mixed in an agricultural and industrial town; two weekly markets; monthly fairs; surrounding districts attract visitors, who come to stay for their summer holidays; no goodwill; fixtures and stock (low) at valuation; a rare opportunity for a capable young man. 226/6, Office of this Paper.

**NOTTINGHAM.**—Unique opportunity of acquiring a genuine Proprietary Medicine Business, established 1870; easily managed; net annual profits £180; price asked £150; part could remain; attractive premises; modern dwelling; sound reason for disposal; a reasonable offer not refused; will bear strictest investigation; books properly kept; scope for increase and additions. Apply, 224/25, Office of this Paper.

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**D**ENTAL Vacancy; returns £500; could easily do more; rent £35; very suitable for unregistered man; moderate terms to immediate purchaser for goodwill, contents of surgery, and introduction; large town South Coast. Apply "J." (225/19), Office of this Paper.

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**H**IGH-CLASS RESIDENTIAL SUBURB, N.W.—Light Retail and Dispensing Business; in same hands nearly 20 years; selling through family reasons; turnover £950; good profits; assistant kept; convenient residence; long lease at nominal rent; well fitted and fully stocked; price £625. Apply "Lactol" (227/02), Office of this Paper.

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Stock at cost about £1,100; Fixtures and Fittings at cost about £350. A reasonable offer will be accepted.

Every information given on application to the Receiver, Mr. Arthur E. Mason, Chartered Accountant, Dudley; or Messrs. Thomas Cooksey & Co., Solicitors, Old Hill.

**L**IGHT Retail and Dispensing Business; returns £600; well fitted and stocked; good house, private entrance; price £180, or near offer. 223/38, Office of this Paper.

## BUSINESSES FOR DISPOSAL

(continued.)

**L**IGHT Country Retail in Colliery district of West Leicestershire; returns £560; unopposed; rent £30; good chance for a smart qualified store man; offered at a valuation of stock and fixtures, about £250. Further particulars from "Vendor" (197/06), Office of this Paper.

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**S**ACRIFICE Stock and Fixtures (worth £350) of branch shop for £250 or offer; cash neighbourhood; little or no Dispensing; would suit qualified or unqualified; good opening for Dentistry; nice house and very convenient, in good repair; handsome shop; may be rented £36 per annum; business much neglected under junior. "Optimus" (227/10), Office of this Paper.

**£120.**—A Bargain; good sound little Business in working-class neighbourhood near London; cash trade; good reasons for disposal; quick sale. Apply 227/15, Office of this Paper.

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## BUSINESSES WANTED.

**B**USINESS wanted, or good opening.—£2 will be paid for information (if acted upon) re above for up-to-date Chemist, in good seaside town or inland health resort; old business not objected to if capable of increase. 227/31, Office of this Paper.

**W**ANTED at once, within 20 miles of London, good-class Retail Business, returning about £1,000, or Managership with view to succession; advertiser has cash ready. Rouse, Chemist, 6 Bank Buildings, Harrow.

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**A** MODERN Pharmacy, complete with Shop-rounds, Carboys, Utensils, etc., at great sacrifice to close estate; worth £300; will accept £80 for the lot to save further rent; a bargain; can be viewed any day by appointment. Write, "Kinson" (223/21), Office of this Paper.

**D**RUG PLANT FOR SALE.—30-gal. Vacuum Plant with Copper Pan, Pump, and Fittings complete, by Morton; Hydraulic Tincture Press, by Tangye; Disintegrator, by Morton; C.I. Jacketed Tilting Enamelled Pan, 26 by 19, by Morton; valuable Copper Still and Gunmetal Condenser; Pill-coating Machine, by Wilkinson; Mixing Machine, with bronze knives, by Morton; Gas Oven, 6 ft. by 4 ft. by 4 ft., with trays, by Parkinson; and 2 hand Capsuling Machines. Prices and photos on application, W. J. McCoy & Sons, Ltd., Machinery Merchants, Belfast.

**F**OR prompt Disposal, good-class Fittings, Shop Bottles, etc., together with remaining Stock, owing to premises being sold for other purposes; fine opportunity for one commencing business or others desiring change; seaside; genuine; worth viewing; no brokers or post-cards answered. Address, "Seaside," c/o Messrs. Evans & Co., 56 Hanover Street, Liverpool.

## APPRENTICESHIPS.

**A**PPRENTICES.—Youth (17) desires to learn Retail business; tall; good appearance and address. Particulars from "T. B. G.," 26 Dragon Road, Harrogate.

## TO LET.

**T**O Chemists.—Well-positioned Shop on main thoroughfare, near Cannell Laird's large shipyards; special terms for lease granted to enterprising tenants. Apply, Hughes & Jones, 1 Hamilton Square, Birkenhead. Tel. 156/157.

**C**HEMIST; excellent chance; no opposition; Wimbledon; good class, not new; spc. district; 6 rooms; £48. "Owner," Burdwood, 31 York Place, Baker Street.

**M**ANUFACTURER'S Premises, Warehouse, Store, or Workshops, suitable for any trade, near Sloane Square. Lennox Works, Halsey Street, Cadogan Square, S.W.

**T**O Let, with immediate possession, small double-fronted Shop and House in market town, nearly 10,000 inhabitants; has been let as Drug Stores, but qualified man wanted; exceptional chance for energetic beginner; good opening Dentistry; suitable for lock-up. Apply, Owner, 2 Prince's Road, Stamford.

**T**O Let, in one of the main streets of a market town in Shropshire, two Houses and Shops, one of which would be a grand opening for a Chemist and Druggist; rents £30 and £25; all particulars and every assistance given. "Alpha" (224/23), Office of this Paper.

**T**O be Let, an old-established Herb and Drug Business; small capital required. Apply, Surgical Hosiery Co., Ltd., Russell Street, Nottingham.

## AGENCIES.

**I**NDIA.—Advertiser, 20 years' experience in the East, is open to act as Managing Representative in India for first-class firm Manufacturing Chemicals, Pharmaceutical Preparations, or Drug-trade specialities, other than Disinfectants; terms would include power of attorney to act for the firm, monthly allowance plus commission, and contribution towards office, etc., expenses. Address, 191/33, Office of this Paper.

**R**USSIA.—An English Company recently formed is open to take up Agencies for Russia. Apply to British Russian Trading and Investment Corporation, Ltd., 8 Lloyd's Avenue, London, E.C.

**A** BRITISH Manufacturer of Veterinary Medicines and Instruments requires Agents to introduce their goods both at home and abroad; applicants must give full particulars and references, stating for what territory they seek appointment. Apply to "Producer," c/o Walter Harrison & Co., 11/12 Fenchurch Street, London, England.

**A** GENTS wanted in United Kingdom and Colonies to take up the sale of Continental Toilet Soaps amongst Wholesale buyers; commission basis; only thoroughly experienced gentlemen with good connection need apply. Write, with full particulars, 190/59, Office of this Paper.

**T**RAVELLERS and Agents wanted to take up as a Side-line the sale of our Liqueur on a commission basis; same is advertised amongst all the Chemists in the United Kingdom, and therefore only requires following up; small pocket sample; high commission; season now commencing. Russian Liqueur Works, Uralsk, Muswell Hill, London, N.

## PARTNERSHIPS.

**A** FIRM of Chemists, with branches in good-class London suburbs, have a vacancy for a Branch Manager prepared to invest £250, for which full security will be given; first-class references and experience essential; minimum remuneration for services £3 per week, exclusive of 10 per cent. commission and any interest on capital invested; good prospect. Apply, 221/2, Office of this Paper.


**P**ARTNER required, to invest £1,000 in an increasing small Wholesale Business in the West of England amongst Chemists, Grocers, Hairdressers, and Stationers; only bona-fide applicants treated with. "X. Y. Z." (198/02), Office of this Paper.

**Y**OUNG Pharmacist desires a Partnership in a genuine business where he could attend hospital for medical studies; advertiser is of good education, appearance, and address, has received superior West End experience, and can furnish highest references as to business ability and character. "Scrip" (225/16), Office of this Paper.

# SITUATIONS OPEN

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.



**RESULTS**  
OF ADVERTISING IN THIS SUPPLEMENT  
LAST WEEK OCT 14 1911.

NATURE OF ADVT.	REPLIES
MAN FOR WHOLESALE	39
ASSISTANTS	36
CHEMISTS	33
QUAL. MANAGER	23
SITUATION WANTED	18
WAREHOUSEMAN	17

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

## TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

## ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR—millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the material set before him.

## RETAIL.

**ABERGELE**, North Wales.—Wanted immediately, Junior or unqualified Assistant (single); comfortable situation for really reliable man. Apply, giving age, height, full particulars of experience, salary required, and when at liberty, with references, Boardman, Pharmacist, Abergele, North Wales.

**BARNSTAPLE**.—Unqualified, unmarried Junior; indoors; Agricultural district; good knowledge of Photography necessary. Sheppard, Pharmacist, Barnstaple.

**BERKS**.—Assistant, about 24, for good-class Country Retail and Dispensing business; good address, well up in Photography, and able to relieve at the Dispensing Counter. Apply, stating age, references, and salary required (indoors), Henry Davis, Chemist, Newbury.

**BEXHILL**.—Junior Assistant wanted at once (outdoors) for high-class Dispensing business. Please give full particulars of experience, age, height, salary required, and send photo, Robbins, Pharmacist.

**BEXHILL-ON-SEA**.—Wanted, a good Junior, must be a quick and accurate Dispenser, in a first-class Dispensing business; comfortable home. Apply, stating age, salary required, to F. Wimshurst, Pharmaceutical Chemist, Bexhill-on-Sea.

**BIRMINGHAM**.—Dispenser, qualified, wanted; superior man having had first-class Dispensing experience in high-class Pharmacy. Particulars, with photograph, to Philip Harris & Co., Edmund Street, Birmingham.

**BOURNEMOUTH**.—Junior, smart gentlemanly Assistant, required on early date; must be reliable Dispenser and good Counterman. Apply, stating age, height, salary required, and references, with photo if possible, to Gilbert & Hall, 15 Commercial Road, Bournemouth.

**BRIGHTON**.—Manager required for small branch with view to early succession. Please give full particulars in first letter to "J. H." (224/31), Office of this Paper.

**BROADSTAIRS**.—A Junior Assistant required; must be a reliable Dispenser and a good Counterman, with some knowledge of amateur Photography; outdoors; weekly half-holiday. State salary, enclose photo, Julian Horrell & Co., The Pharmacy, Broadstairs.

**CARDIFF**.—Immediately, a competent and experienced Assistant for the Counter; salary 35s. (outdoors). Apply, stating age, height, experience, and references, with photo, Duck & Son, Chemists, Cardiff.

**CHELTENHAM**.—Senior Assistant, 28-30, good Dispenser, for high-class Dispensing and Photographic business; indoors; half-holiday weekly. Please send full particulars to Beetham & Clark, Promenade, Cheltenham.

**DARLINGTON**.—Assistant required immediately; qualified; used to quick Counter trade and Window-dressing. Apply, stating age, height, experience, salary required, if experience in Photographic dealing, abstainer preferred, Waters, Chemist, Darlington.

**GRIMSBY**.—Wanted immediately, qualified Assistant to Manage Branch in good-class district. Reply, stating experience, references, salary required, and usual particulars (abstainer preferred), W. Barker, Exors., 81 Victor Street, Grimsby.

**HORSHAM**.—Junior or Improver for a high-class business; knowledge of Photography essential; indoors. Give full particulars, salary, references, etc., and photo if possible, Williams & Smith, Chemists, Horsham.

**LONDON HOMOEOPATHIC HOSPITAL**, Great Ormond Street, Bloomsbury, W.C.—Applications are invited for the post of Senior Dispenser at this Hospital; salary to commence at £100 per annum; candidates must possess the Major qualification of the Pharmaceutical Society and be from 25 to 35 years of age and have had previous Hospital experience in a large London or provincial General Hospital; an acquaintance with the methods of the British Homoeopathic Pharmacopoeia is essential. Applications, with copies of not more than three testimonials of recent date, must be delivered to the Secretary on or before the 24th October, 1911. Edward A. Attwood, Secretary.

**LONDON, N.W.**—Wanted (indoors), unqualified Assistant for a permanency, for brisk Cash business; one whole day off duty weekly. Apply, R. R. Pratt, Pharmacist, 94 Canterbury Road, West Kilburn, N.W.

**LONDON, S.W.**—Assistant required at once, with knowledge of Dispensing, Photographic, Window-dressing, for good-class Store trade; reliability essential. Apply, Davies, Durbin's Drug Stores, 50 Broadway, Wimbledon, S.W.

**LONDON, S.W.**—Competent Assistant required, about 23 or 24 years of age (outdoors). Apply, personally or by letter, to Mr. Evans, Messrs. Foster & Dallas, 1 Lavender Hill, S.W.

**LONDON, N.W.**—Assistant, qualified preferred (indoors), in good-class Dispensing business; good salary; good hours. Walton & Curtis, 190 Broadhurst Gardens, W. Hampstead, London, N.W.

**LONDON, N.**—Qualified young man to take charge of small Drug Stores; state salary, live in or out. Reply, stating if disengaged, with photo, if convenient, and full particulars, to "D. D. S.," 76 London Road, Clapton, N.E.

**LONDON, S.W.**—Wanted immediately, Junior Assistant; state experience, salary required, and references; no Sunday or Bank Holiday duty. Dan Davies, Pharmacist, 324 Coldharbour Lane, Brixton, S.W.

# SITUATIONS OPEN *(continued).*

**LONDON, N.**—Part-time Junior in good-class business; indoors; one with Dispensing experience preferred; ample time for study. State age, height, experience, salary in first letter, 223/34, Office of this Paper.

**LONDON.**—Unqualified Assistant required for high-class Dispensing business in the City; must produce undeniable references as to character and ability; good salary to the right man. 138/61, Office of this Paper.

**LONDON, S.W.**—Steady and reliable Assistant at once; outdoors; Photography; must have had good London experience. Apply, personally, J. Keall, 68 West Hill, East Putney.

**LONDON, W.**—Wanted, capable Assistant, age about 25, for Dispensing and Retail; easy hours. H. Lyon, 18 Formosa Street, Warrington Crescent, W.

**LONDON, S.W. (near Schools).**—Assistant (indoors), with good-class experience. State full particulars, with photo (to be returned), F. H. Glew, 156 Clapham Road, S.W.

**LONDON, N.W.**—Assistant wanted (indoors), age about 24, experienced in General Retail, Dispensing, and Photography. Apply personally, or by letter with photo, to C. Coutts Michie, 175 Kentish Town Road, London, N.W.

**LONDON, E.**—Assistant (23-25), with knowledge of Photography; must have passed Preliminary; reasonable hours and good wage to a suitable man. State full particulars, 228/6, Office of this Paper.

**LONDON.**—Assistant for good-class Dispensing and Retail wanted. Apply "Alpha" (228/3), Office of this Paper.

**LONDON, S.W.**—Junior or Improver wanted by beginning of November; must be quick and willing. Apply, with full particulars, salary required, and enclose photo, to S. Wilde, 100 Brompton Road, S.W.

**MIDLANDS.**—Qualified Manager wanted for modern Cash business; Light Retail with some Photographic; very comfortable berth for capable and energetic man. Give full particulars of experience and state salary required, 198/1, Office of this Paper.

**PURLEY.**—Assistant wanted; outdoors; about 23. Apply, with particulars, to L. H. Knight, 3 The Exchange, Purley, Surrey.

**SCARBOROUGH.**—Qualified Assistant, with good-class Dispensing experience essential, married, to reside over premises. Write, stating age, salary required, and enclose photograph, E. Barker, 29 Ramshill Road, Scarborough.

**SOUTHAMPTON.**—Qualified Assistant, age from 22 to 26; good Counterman and knowledge of Photography; salary commencing 50s. a week, rising, according to ability, to £4; none need apply who do not desire a permanency; enclose photo. Martin, Pharmaceutical Chemist, Southampton.

**SOUTHAMPTON.**—An Assistant required for a Light Retail and Dispensing business. Apply, with usual particulars, enclosing photo and stating salary required (indoors), to R. H. Fowler, 56 London Road, Southampton.

**SOUTHPORT.**—Wanted, Junior Assistant; outdoors; age about 21; accurate Dispenser, good Window-dresser and Counterman; early in December. Please state full particulars in first letter, Kendrew, Chemist, Ash Street, Southport.

**SOUTHSEA.**—A Junior Assistant in a Dispensing business for a few weeks; some Dispensing experience necessary. Full particulars and photo to T. O. Barlow, Palmerston Road, Southsea.

**STAFFS.**—Manager, unqualified, wanted for Country Branch; married; salary 30s. weekly, with commission on Dental, free house and lighting; weekly half-holiday; closed Sundays; Junior kept; must be competent Extractor and obliging Salesman; easy hours and light work. State age and full particulars to "Extractor" (225/9), Office of this Paper.

**TOTTENHAM.**—Unqualified Assistant or Doctor's Dispenser (outdoors), to make Stock and Dispense; one seeking permanency preferred. State age, experience, references, salary, married or single, and when disengaged, to S. B. Batley, Chemist, 682 High Road, Tottenham.

**WEST BYLEET** (21 miles from London).—Unqualified gentlemanly Assistant required (indoors); quick worker, with high-class Dispensing experience; not over 25. Apply, with full particulars, enclosing photo, to S. Browning Moss, West Byfleet.

**A VACANCY** occurs for a gentleman with ability and appearance; preference given to one qualified. State particulars to 223/4, Office of this Paper.

**ASSISTANT** wanted, London (outdoors), young, energetic, for Cash trade; good stockkeeper and know Photography. In reply kindly state age, height, references, salary expected, with photo (which shall be returned), 227/19, Office of this Paper.

**COMPETENT**, gentlemanly Assistant (unqualified) wanted; age about 25, with good Counter and Dispensing experience; permanency and progressive salary. Timothy White Co., Ltd., Portsmouth.

**JESSE WILLIAMS**, Pharmaceutical Chemist, 132 Queen Street, Cardiff, requires immediately an outdoor Assistant for front Counter; must have knowledge of Photography; wages 30s. weekly. Full particulars, please, in first letter, including age, height, references, and whether married or single.

**JUNIOR** (indoors) for Dispensing and Light Retail business. 10 miles from London; easy hours; time for study if required. Apply, stating age, height, salary, etc., to W. Wade, 55 High Street, Sidcup, Kent.

**JUNIOR Assistant** (outdoors) for good-class business in Surrey. Apply, with full particulars and photo, to Chapman, Pharmacist, Esher.

**JUNIOR** or Improver wanted immediately; indoors; comfortable home; must be active and obliging. Apply, stating full particulars as to age, references, salary required, also please enclose photo (to be returned), to Evans, Pharmacist, Dowlais, South Wales.

**JUNIOR** or Part-time Assistant; indoors; comfortable home; good-class Dispensing business in residential neighbourhood near Colleges. Apply, with full particulars, enclosing photo (to be returned), 198/31, Office of this Paper.

**MANAGER**, qualified, for Branch shop; light Retail trade; must be smart, up-to-date, and thoroughly reliable. Apply, with full particulars as to age, references, and salary required, to 222/21, Office of this Paper.

**PART-TIME Junior**; London, S.W.; one or two days each week, or from 2 or 3 p.m. until 9.30 on Wednesdays. Say if in any other permanent berth, and also give references, age, and salary required, to "K. W." (227/6), Office of this Paper.

**QUALIFIED** Septsman wanted to Manage Branch business in Scotch city; must have working-class experience. State age, salary expected, and present employer, 222/16, Office of this Paper.

**QUALIFIED** Manager for unopposed shop in growing suburb of large town; good salary and commission; free house; small garden; an elderly gentleman of sound health and active business habits would find the appointment congenial and permanent. State full particulars, enclosing photo, to 224/26, Office of this Paper.

**QUALIFIED** or unqualified Assistant for first-class Dispensing and Retail business; knowledge of Photo business desirable. Full particulars to Hinton Lake & Son, Ltd., Exeter.

**WANTED**, a young man to put up Stock and as Stockkeeper. If personal application, any morning between 10 and 12 o'clock Wallas & Co., Chemists, 36 New Cavendish Street, W.

**WANTED**, in a West-End house, Assistant, qualified, accustomed to good-class Retail; age 24 to 26; height not less than 5 ft. 9 in. Apply, stating experience and salary required, to 196/38, Office of this Paper.

**WANTED**, a qualified Manager for Branch; view to permanency; married man and one used to Store trade preferred; exceptional references required; salary and commission. Baker's, Cash Chemists and Opticians, 87 & 89 Shields Road, Newcastle-on-Tyne.

**WANTED**, qualified Assistant (indoors), from November 7. Apply, John Cooper, Pharmacist, Weston-super-Mare.

**WANTED**, a qualified gentleman (Minor) as Assistant Dispenser; age about 23-30; hours 9 a.m. to 5.30 p.m., with lunch; salary commencing £90 per annum. Apply, between 2 and 5, to the Pharmacist, The Hospital for Sick Children, Great Ormond Street, W.C.

**WANTED**, Junior Assistant for November 13; outdoors. Apply, with full particulars, stating salary required, to W. H. Walker, Chemist, Willenhall, Staffs. Applications not answered in 3 days declined.

**WANTED**, go-ahead, smart Senior Assistant, Drug Stores; young married preferred; must be good Counterman, smart Salesman, able to introduce goods, not afraid of work; progressive position to the man who wants to get on; comfortable, well-paid permanency; unqualified. State wages, when disengaged, age, and height, Simpson, Queen's Road, Brighton.

**WANTED**, outdoor Assistant; quick City trade; must be smart Counterman and good Dispenser; no Sunday duty. "Pharmaceuticals," c/o Henry Jackson & Sons, School Lane, Liverpool.

**WANTED**, a steady elderly qualified Chemist, over 50, to manage a small business in a small Lancashire town. State age, height, religion, and salary required, 225/14, Office of this Paper.

**WANTED**, qualified Assistant; age about 25 years; unmarried; permanency for capable man. Apply 198/14, Office of this Paper.

**WANTED**, qualified Assistant, indoors, aged 24 to 28, for high-class Dispensing business in North London. Apply, by letter only, giving full details of experience and salary required, to "M.," c/o S. Maw, Son & Sons, 7/12 Aldersgate Street, E.C.

**YOUNG** qualified Manager for modern Store Branch; good salary and moderate hours to man with business ability and energy; also capable unqualified Assistant; references must be irrefragable. State full particulars, and if possible enclose photo (returnable), to "L. S. W.," c/o Messrs. Evans Lescher & Webb, Hanover Street, Liverpool.

**YOUNG** man, about 21, used to Drug trade, willing to learn; must be good Packer, clean and polite; live out; immediate. Birkett, 189 East India Dock Road, Poplar, E.

**DEMONSTRATOR** and Assistant Lecturer (Major qualification) required at a School of Pharmacy in London. Applications, giving age, when qualification obtained, experience, etc., to be addressed in the first place to "Principal" (186/7), Office of this Paper.

## WHOLESALE.

**SCOTLAND**.—Representative wanted. State (confidentially) age, experience, etc., 194/29, Office of this Paper.

**INVOICE** Clerk.—Wanted, by large provincial Wholesale firm, a thoroughly competent man to take charge of Invoice Office; must be well up in prices. Address, in confidence, stating age, experience, and salary required, to "Wholesale" (195/67), Office of this Paper.

**LADY** Assistant as Deputy required with Hall qualification. Apply, stating age, salary required, and enclose photograph (to be returned), to 198/13, Office of this Paper.

**LONDON** Manufacturing Druggists require a Junior Assistant in their Analytical Laboratory; applicants must be able to undertake the quantitative examinations of Drugs, and have had experience in the determination of Alcohol in Tinctures, etc. Full particulars to be sent with application to 198/32, Office of this Paper.

**PERFUMERY** Town Traveller required; experienced; high-class trade. Apply, by letter, with full particulars of past experience, to "P. P.," c/o S. H. Benson, Ltd., Kingsway Hall, Kingsway, W.C.

**PHARMACIST** wanted with a Laboratory experience, and in the packing of Chemists' Specialties and supervision of work-people. Write full particulars to 225/27, Office of this Paper.

**SUNDRIESMAN**, with knowledge of London Trade Houses and Medical Sundries; improving position to trustworthy and reliable young man. Apply, with particulars of age, experience, and salary required, to 227/25, Office of this Paper.

**TRAVELLER**.—A vacancy has occurred in the London district with a firm having extensive business with Stores, Institutions, Chemists, and Grocers; applications from gentlemen (qualified Chemists preferred) having a wide experience will be carefully considered in confidence if accompanied by full particulars; age and salary required should be mentioned. Reply to 198/5, Office of this Paper.

**WANTED**, experienced Assistant (male) for Surgical Instrument and Fitting Department. Apply, stating age, experience, and salary required, to Reynolds & Branson, Ltd., 13 Brig-gate, Leeds.

**WANTED**, a Handy man. A. N. & Co., 73 Duke Street, Grosvenor Square, W.

**WANTED** at once, good Packer with first-class experience of Export and Bond packing. Apply by letter, stating age, previous experience, and wages required, to "Bond" (198/17), Office of this Paper.

**WANTED**, experienced Invoice Clerk. Apply, with references, stating salary required, R. Sumner & Co., 50a Lord Street, Liverpool.

**WET** Counter.—Junior, some experience, Wholesale or Retail. Details, experience, and wages, to "Locum" (223/14), Office of this Paper.

**YOUTH** required in City Warehouse for Post, Counter, and Town Order work; wages 17s. per week. Write, giving particulars as to experience, etc., to 228/5, Office of this Paper.

## SITUATIONS OPEN

(Colonial, Indian, and Foreign).

**3s. 6d.** for 50 words or less; **6d.** for every 10 words or less beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of **6d.**

**Ceylon**.—Chemist, with Minor certificate Pharmaceutical Society, required, about 24, single, for first-class British business in Colombo; excellent opening for smart Assistant with experience of good-class trade; passage paid out and home. Apply, with full particulars, to Dakin Bros., Ltd., 82 Middlesex Street, E.C.

**Durban**.—Required at once, unqualified Assistant; 3 years' agreement; second-class passage paid; salary first year £144, second £156, third £168; free quarters provided. Apply by letter, "F. J. G.," c/o C. J. Hewlett & Son, 35 Charlotte Street, E.C.

**France**.—Qualified Assistant; knowledge of French and Continental experience. State age, height, salary (outdoors), photo (to be returned), "Continental" (195/68), Office of this Paper.

**India**.—Qualified Chemist wanted, pushing Retail Salesman, with good-class experience; 4 years' agreement; salary 200 rupees per month first year, 225 rupees per month second year, same third year, 250 rupees fourth year; second-class passage paid out and home. Apply, "J. W. S.," Evans Sons Lescher & Webb, 60 Bartholomew Close, E.C.

**Japan**.—Qualified Assistant, about 30 years of age; 4 years' agreement; salary £144 first year, advancing £12 annually to £180, with residential quarters and board, also a commission on net profits; second-class passage paid *via* Siberia and return passage home if agreement completed. Apply, with copied testimonials and photo, to "R. L.," Maw, Son & Sons, Aldersgate Street, E.C.

**Rangoon**.—Assistant required, age about 25 to 30; Minor qualifications; 4 years' agreement; salary first year 250 rupees per month, rising by 25 rupees per month annually to 325 rupees; passage paid. Apply, stating full particulars as to experience, etc., to Indo Burma Co., Ltd., 108 Wool Exchange, E.C.

**Simla**, N.W. India.—Qualified Assistant, age about 30; 3 years' agreement; £200, £220, £240 each year respectively; free quarters on the premises; passage paid out and home on the expiration of agreement. Apply to "R. L.," c/o S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

**South Africa**.—Assistant, Dispensing Counter, age 23 to 25 years, abstainer preferred, used to good-class business; 3 years' agreement; £15, £16, £17 monthly respectively (outdoors). State full record, Davis & Soper, 54 St. Mary Axe, London.

**South Africa**.—Required at once, for an important town, first-class qualified Assistant, not over 24 years; single; one with good Dispensing experience and a knowledge of Photography preferred; 3 years' agreement; second-class passage paid out; salary first year £17, second year £18, third year £19 per month. Apply, by letter, giving full particulars, to 198/30, Office of this Paper.

# SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

## [HOME]. RETAIL.

"ONLY SIXTEEN."

In reply to your letter *re* advertising again, I beg to state that I have received only SIXTEEN replies from that one advertisement.—(197/35).

**J.** PYE, 62 Lynette Avenue, Clapham Common, is disengaged.

**Q**UALIFIED; 25; town and provincial experience. Ogle, Canon House, Melksham, Wilts.

**Q**UALIFIED; single; 29; London Store experience. Hunter, 43 St. Mary's Road, Garston.

**J**UNIOR; 20; 4½ years' experience; Manchester district. Roberts, 11 Halsstead Street, Bolton.

**U**NQUALIFIED; middle-aged; as Manager or otherwise. Parlow, 53 Pembroke Street, Walthamstow.

**A**SSISTANT; unqualified; whole or part time; trustworthy. "D.," 10 Whitstable Street, S.E.

**A**SSISTANT; experienced; Dispenser; moderate; outdoors. Dale, 11 Park Lane, Clissold Park, N.

**P**ART-TIME (evenings); good experience, Dispensing, etc.; 24. "Student," 164 Clapham Road.

**A**SSISTANT; 21; Dispensing, Agricultural, and Photographic. Prime, 25 Draper's Lane, Leominster.

**E**VENINGS from 6.30, Saturdays from 3; qualified; 28. "Robinson," 19 Pulross Road, Brixton, S.W.

**Q**UALIFIED; experienced; Retail or Dispensing; Manager; outdoors. "L.," 84 Huntley Street, W.C.

**Y**OUNG man seeks a trial in a Drug Store as Sundry Assistant. "Anxious," 8 Buer Road, Fulham, S.W.

**H**AVING disposed of my business, am now open for Locum duty. "Qualified" (222/32), Office of this Paper.

**U**NQUALIFIED; 25; excellent references; best all-round experience. Giffen, 15 Rose Lane, Canterbury.

**Q**UALIFIED Assistant or Manager (young); West-End, country, and Hospital experience. Herington, Dunstable.

**L**OCUM or Branch Manager; disengaged; middle-age. Hampshire, Chemist, Wadsley Bridge, near Sheffield.

**Q**UALIFIED; 26; 11 years' experience, Dispensing, Counter, Photography. French, Chesterton Mills, Cambridge.

**M**ANAGER; tall; varied experience; permanency; married. "Chemist," 15 Clarence Place, West Cliff, Whitby.

**Q**UALIFIED; country district preferred; moderate terms. Barker, 23 Wellose Mount, Blackman Lane, Leeds.

**J**UNIOR; disengaged; London experience; outdoors; London preferred. Mathews, Elderslie, Waterloo Terrace, Carmarthen.

**D**ISPENSER and Bookkeeper; experienced; permanency; good references. "Reliable," 31 Earlsmead Road, S. Tottenham.

**P**ART-TIME; disengaged one day or half-day a week, also Saturday and Sunday relief. 223/6, Office of this Paper.

**Q**UALIFIED; 27; Manager or Assistant; accustomed good-class business; now in London. 222/8, Office of this Paper.

**Q**UALIFIED (24), tall, disengaged, desires situation; Counter work; good references. Griffiths, 28 Llewellyn Street, Pentre, Glam.

**Q**UALIFIED; permanency or Locum; 31; disengaged early in November; references. "Manager," 210 St. George's Road, Bolton.

**M**ANAGER; qualified; married; 27; disengaged; 10 years' best experience; highest references. Dunning, Ketley, Wellington, Salop.

**O**UTDOORS; tall; first-class experience; Locum or permanency; disengaged 23rd inst. "Reliable," 307 Shirland Road, Paddington.

**I**MMEDIATELY; unqualified; 40; abstainer; experienced; married; Dispensing, Photography, Window-dresser. 6 St. George's Road, Ramsgate.

**P**ART-TIME Dispensing, Institution or Doctor, by Dispenser holding public appointment (male); terms moderate. 223/11, Office of this Paper.

**M**ANAGER; qualified; married; town or country; good Prescriber and Counterman; best references. "H.," 351 Fulham Palace Road, S.W.

**C**HEMIST'S Assistant, 10 years' experience, requires Dispenser's berth, Birmingham district. Apply to A. Jones, 141 Bristol Street, Birmingham.

**Q**UALIFIED (28) desires post; Manager or otherwise; good experience and references; disengaged shortly. "Arturo," Cairnwood, Colwyn Bay.

**Q**UALIFIED Chemist; Manage or Assist; Dispensing; highest references; experienced; London preferred. "C. D.," 5 Norfolk Road, Bayswater, W.

**M**ANAGER or temporary; disengaged; qualified; 30 years' experience; married; age 47; good experience. "Alpha," 3 Helena Avenue, Margate.

**Q**UALIFIED Assistant (24) seeks situation in North of England; West-End Dispensing and Counter experience; good references. Riddle, 24 Sloane Street, S.W.

**J**UNIOR or Improver seeks situation in Manchester or Bolton districts; good references; age 20. Address, "H. B.," 229 Deane Church Lane, Bolton.

**Q**UALIFIED; 27; teetotal; Branch Manager or Assistant; Extractions; capable, obliging; Liverpool if possible. "Salix," 1 Russell Road, Sefton Park, Liverpool.

**A**SSISTANT; experienced; unqualified; permanency desired; good references; married, no family; thoroughly reliable. Taylor, c/o Mr. Vawser, High Street, March.

**Q**UALIFIED; 24; Retail, Dispensing, Photographic; outdoors; West-End and provincial experience; disengaged after October 28. "Veronal," 130 Talbot Road, London, W.

**P**ERMANENCY required shortly by qualified Senior Assistant; good London experience; outdoors only; London preferred; Brown, 190 Broadhurst Gardens, West Hampstead.

**F**OREIGN Pharmacist, speaking fluently Russian and German, and fairly good English, requires position at home or abroad. "Vigod," 76 Downs Park Road, Clapton, N.E.

**Q**UALIFIED; 42; active; excellent references; will accept moderate salary; Locum or permanency; experienced Dispenser; disengaged. "Chemist," 193 West End Lane, N.W.

**Q**UALIFIED; 24; tall; Photography; good-class experience; highest references; disengaged; insight to Optics or Dentistry preferred. "Chemist," 119 Caversham Road, Reading.

**D**ISPENSER, unqualified, 25 years' experience, town and country, energetic, capable, pleads for start to redeem character. "D.," c/o Hon. Secretary, 55 Bryanston Street, W.

**U**NQUALIFIED (22½), 7 years trade, desires London experience; good knowledge Dispensing, Photography; no late duty; disengaged November 20. 222/10, Office of this Paper.

**SENIOR** or other responsible position; Major qualification; "Square" trained; 26; best West-End and provincial experience. Ridges, 13 Crawford Street, Wolverhampton.

**QUALIFIED**; 28; single; Branch Manager or Senior; good references; Prescriber; reliable; disengaged; permanency; North of England. Brown, Maison Dieu, Richmond, Yorks.

**QUALIFIED**; 22; tall; 6 years' experience, town and country. Retail, Dispensing, Photography, and Agriculture; good window-dresser. Particulars to Sandbach, Ellesmere, Salop.

**JUNIOR** (21), tall, good appearance and address, disengaged November 11, desires berth (outdoors); South Wales or West of England; good references. 222/20, Office of this Paper.

**DISPENSER**; unqualified; young, tall, and perfectly reliable in every way; splendid Hospital and Surgery experience; undeniable references. Pidoux, Woods Lane, Burton-on-Trent.

**MANAGER**; qualified; 34; tall, good appearance; 5½ years present berth; exceptional all-round experience; good salesman; view to purchase. "Aspirin," 37 Fountain Street, Hull.

**M.P.S.** (26), 5 ft. 10 in., as Senior or Manager; disengaged end of November; exceptional experience; Manchester preferred; moderate salary. 222/26, Office of this Paper.

**BRANCH Manager, Locum, etc.**; 36; abstainer; extensive experience; Photography, Extractions; good Prescriber, Dispenser; disengaged. "Qualified," 55 Sandy Road, Seaforth, Lancs.

**PHARMACIST** (44) desires Managership or responsible position; active, thoroughly reliable and trustworthy; abstainer; permanency, or would entertain succession. 222/3, Office of this Paper.

**UNQUALIFIED Assistant or Branch Manager**; Dispenser, Prescriber, Extractor; excellent references; married, no family; disengaged; abstainer. "Chemicus," 5 Grecian Road, Tunbridge Wells.

**SURGEON'S Dispenser**; 40; single; sober, experienced, and reliable; small salary; Teeth Extraction and Surgical Dressing; free Monday. "Dispenser," Park House, Silchester Road, Kensington, W.

**COMPETENT Assistant**, married, desires permanency; unregistered; good Salesman, obliging Counterman; 20 years' London experience; capable Manager. "References," 128 West Green Road, N.

**ADVERTISER** requires responsible position end November; 31; unregistered; married; thorough good-class experience, Retail and Dispensing; successful Prescriber. "B.," 20 Borneo Street, Putney, S.W.

**GENTLEMAN** (qualified), of ability, energy, good references, and exceptional experience, requires Management of a large Branch or Drug Department in big Store. "Alkaloid" (221/6), Office of this Paper.

**MANAGER**, qualified, experienced in modern business methods, desires engagement with progressive business firm, Manchester or Liverpool districts; succession or interest terms desired. Apply, 220/5, Office of this Paper.

**JAPANESE Pharmaceutical Chemist** (age 28), experienced in France, Germany, and Switzerland, and well acquainted with English Dispensing, desires situation in a London Pharmacy; remuneration no importance. 217/39, Office of this Paper.

**AN** elderly Chemist, qualified, active, and up-to-date, is open to an engagement, 6 to 8 hours a day, or as Dispenser to a Surgeon; S. or S.W. for choice; salary moderate. 222/34, Office of this Paper.

**ASSISTANT**; unqualified; experienced Counterman; medium height and age; selling knowledge of Photo and Optic goods; good address; Store trade; good at windows, stock, etc.; salary £2; good references; disengaged; London or South preferred. "Utility," North Town House, Maidenhead. Phone 230 Maidenhead.

**UNQUALIFIED Assistant** (30), married, no family, tall, well up in Photography and Optics, smart Counterman and good Window-dresser, seeks situation in Midlands; over 14 years' experience in London and provinces; first-class references; permanency desired. Apply, "H.," 10 Drummond Road, Ilkeston, Derbyshire.

**FRENCHMAN** (18), who knows a little English, desires to board with an English Pharmacist doing a good-class business; preferably with family, for exchange of language and experience; has served 2 years with good Drug-houses and can produce satisfactory references; no salary required; free board only. Roby, 7 Avenue de la Quintinie, Niort.

**SOUTH COAST**—Part-time; qualified; good references. "Xaxa" (226/8), Office of this Paper.

**QUALIFIED**; 26; abstainer; good all-round experience; outdoors. 224/17, Office of this Paper.

**IMPROVER** (22) seeks position; good reference; moderate salary. "Mistura" (226/11), Office of this Paper.

**QUALIFIED**; 23; good Dispensing experience; London or near. Taylor, 34 Cartwright Gardens, W.C.

**LOCUM, Manager, or Managing Assistant**; highest references. Brown, 50 Pen-y-Bryn, Wrexham, N. Wales.

**RELIABLE Assistant** requires Evening Employment from 7. "Extractor," 231 Kennington Road, London.

**UNQUALIFIED, competent Assistant** desires permanency; age 40; £2; outdoors. 227/13, Office of this Paper.

**MORNINGS and evenings**; qualified; 36; disengaged; outdoors. "Pharmacist," 14 Sandmere Road, Clapham, S.W.

**QUALIFIED Lady Dispenser (Minor)** requires post (London); good experience and testimonials. 223/22, Office of this Paper.

**COMPETENT Assistant**; Dispenser, Prescriber; well recommended; moderate salary; smart appearance; outdoors. 224/12, Office of this Paper.

**QUALIFIED**; 29; West End and country experience; good Dispenser; excellent references; outdoors. 224/3, Office of this Paper.

**MANAGER or Locum**; age 32; married; 18 years' good general experience; qualified; disengaged. "M.P.S.," 29 Church Avenue, East Sheen, S.W.

**QUALIFIED**; 37; single; extensive experience; salary and commission on returns; satisfaction guaranteed. "Statim" (223/30), Office of this Paper.

**MANAGER**; 29; married; varied experience; Midlands preferred; disengaged shortly; good references. "Salix" (225/4), Office of this Paper.

**QUALIFIED**; Manager; town and country experience; Prescriber, Dental, Surgical and Mechanical; highest references. 225/18, Office of this Paper.

**LADY Pharmacist** requires post immediately; Doctor or Institution preferred; good Dispensing experience. "A.," c/o Miss Wardle, Gordon Hall, Gordon Square.

**LOCUM, disengaged by Monday**; wide experience, town and country; reliable Dispenser, Prescriber; sound references. Forster, 5 Coleridge Road, Finsbury Park, N.

**ASSISTANT**; good Dispenser, Counterman, and hard worker; well up; London or Suburbs; abstainer; 35; permanency; outdoors. "Salol," 62 Lancelot Road, Wembley, N.W.

**UNQUALIFIED Assistant**; 24; London district; disengaged November 4; present situation 3 years; excellent references. Apply, "Salesman" (227/14), Office of this Paper.

**MANAGER**; 34; unqualified; married; 9 years' business own account; good all-round experience; North preferred; disengaged New Year. "Rhei" (224/39), Office of this Paper.

**UNQUALIFIED**; age 44; married one; 20 years' London experience; permanency; outdoors; excellent references; immediate; personal interview. "Radix," 81 Landor Road, Clapham, S.W.

**JUNIOR or Improver in good house**; just finished 3 years' apprenticeship in London; age 21. Give full particulars, salary offered, indoors or outdoors, to 227/11, Office of this Paper.

**QUALIFIED**; country, in or around Midlands preferred; 31; married; no family; 13 years' Agricultural Dispensing; Prescriber, Extractor; 5 ft. 8 in.; abstainer; moderate salary and hours. 225/35, Office of this Paper.

**28**; unqualified; 13 years' good all-round experience; Photography; excellent references; outdoors; London or Suburbs; S.E. preferred. "Permanency" (224/14), Office of this Paper.

**QUALIFIED Foreign Chemist** (24), well up in French, German, and English language, and in International Pharmacy (Paris and Leipzig), wishes a post in an English Pharmacy; highest references; moderate salary. Apply to Nic. Muller, Echternach (Luxembourg).

# SITUATIONS WANTED *(continued).*

**D**ISPENSER, Doctor or Retail; good references. "A. C.," 3 Banister Road, Kensington North.

**B**RANCH Manager; qualified; 32; experienced; disengaged; permanency. 227/38, Office of this Paper.

**P**ART-TIME; London; 23; tall; smart; unqualified. Write "Statim," 10 St. Martin's Road, Stockwell, S.W.

**D**ISPENSER and Bookkeeper to Surgeon; good references; thoroughly experienced. Stuart, 3 Friary Road, Newark.

**A**SSISTANT; unqualified; Dispenser; permanency; middle-aged; moderate salary. "Statim," 1 Heath Terrace, West Greenwich.

**M**ANAGER; outdoors; City or West End preferred; first-class experience, Dispensing and Counter; married. Charles, 144 Gleneagle Road, S.W.

**L**OCUM, Relief, emergency, part-time; disengaged 27th; engagements invited; 30 years' experience, all grades. Smith, 99 Longden Road, Longsight, Manchester.

**S**COTSMAN; Manager or Assistant; qualified; 27; tall; Locum or permanency; outdoors preferably; London or seaside. Mr. "C.," 14 Selwyn Avenue, Richmond.

**J**UNIOR; age 21; 3 years' experience; good Dispensing, Photography; can accept berth immediately; London preferred; outdoors. H. Wythe, 90 Sumatra Road, N.W.

**D**ISPENSER and Surgery Attendant; male; qualified (Hall); thoroughly reliable; experienced in Dispensing, Dressing, and Bookkeeping; excellent references. "D.," 54 Gurney Street, S.E.

**M**ATRICULATED youth (18) seeks engagement with Chemist; Inorganic Analysis, with knowledge of Organic Chemistry; headmaster's references; moderate salary. McL., 23 Clarendon Road, Lewisham.

**R**ELIEF or permanency; disengaged Mondays, Tuesdays, Fridays, Saturdays; competent Assistant or Manager; good references; 43; tall; active; 20 years' London Dispensing experience; country or seaside entertained. "B.," 6 Station Parade, Horn Lane, Acton, W.

## WHOLESALE.

Trade circulars, samples, and printed matter can in no case be forwarded.

**S**PECIALIST in Perfumery and Toilet Articles; qualified; home or abroad. 224/01, Office of this Paper.

**G**ENERAL Invoice Clerk, considerable experience, could assist pricing, desires position in London. "Energy" (227/40), Office of this Paper.

**W**ANTED, position in Wholesale; would go abroad if required; home and Indian Retail experience; good testimonials; age 27; tall. 225/3, Office of this Paper.

**G**OLD Medallist Vienna 1906 for Perfumery; young English qualified Chemist; Specialities, Perfumery and Toilet Preparations. 224/1, Office of this Paper.

**Y**OUNG Frenchman, desirous of learning English, offers his services to a business firm; no salary required. Particulars of Wilcox & Co., 49 Haymarket, London.

**Q**UALIFIED Chemist (young) desires opening in good Wholesale house; first-class experience in Retail. Full particulars and references, 222/13, Office of this Paper.

**A**DVERTISER, having sold his Retail business, desires position as Traveller; qualified; 34; good appearance and address. "Capable" (225/38), Office of this Paper.

**J**UNIOR (24) desires experience in a Wholesale house; permanency desired; tall, good appearance. G. Almeroth, Egremont House, Heigham Road, East Ham.

**P**OSITION of trust desired by Minor man; Wholesale; good administrator; fluent French and Italian; knowledge Therapeutics; sterling references. 225/40, Office of this Paper.

**T**RAVELLER, with old-established connection South and West of England, is open to Represent good House, Drugs and Sundries, now or January 1 next. 225/12, Office of this Paper.

**T**RAVELLER requires engagement by Wholesale House; town or Southern Counties preferred; three years connected with well-known house in these districts; would go abroad; age 36. "Optimus" (224/10), Office of this Paper.

**T**RAVELLER, working N.W. England, and calling upon Doctors, Dentists, Chemists, and Veterinary Surgeons, is open to Represent another house on part expenses and commission; highest references. "Successful" (223/35), Office of this Paper.

**R**ESPECTABLE young man, abstainer, 5 years' good Retail, excellent references, desires experience, Wholesale and Commercial side of business; permanency desired; Retail unsuitable owing to excessive hours; willing to work; 20. 224/19, Office of this Paper.

**I**S there a Wholesale House in London who can offer employment (not £1 per week) to well-educated gentleman, 30, having thorough knowledge of Drug Trade, Wholesale and Retail experience? Excellent references. Anyone willing to give advertiser trial write for further particulars "H.," (227/22), Office of this Paper.

## SITUATIONS WANTED

*(Colonial, Indian, and Foreign).*

**1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.** Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

*This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.*

**S**ITUATION required in Colonies or abroad by Assistant; 30; 5 ft. 11 in.; Dispensing, Galenicals, Optics, Photography; excellent references. "W. L.," 31 Alfred Street, Gloucester.

## MISCELLANEOUS.

**M**ADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Telephone 81 Lee Green.

**S**HARES FOR SALE (free of commission, subject)—50 Brunner Mond, 101s. 10d.; 200 Baiss Bros. & Stevenson 51 per cent. Preference, 12s. 10d.; 50 Pears' Soap, 36s. 9d. c.d.; 300 A. J. White Preference, 11s.; 410 Ordinary, 2s. 3d.; 200 John Knight, 24s. 7d.

**W**ANTED (subject)—200 Camwal Preference, 5s. 3d.; 250 G. B. Kent Preference, 15s. 6d.; 40 Evans Lescher Preference, 88s. 9d. x.d.; 50 Southall Bros. & Barclay Preference, 22s. 3d.; 450 Wright, Layman & Umney Preference, 19s. 6d. x.d.

List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

**S**ECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.O.

**A**MAZINGLY CHEAP LINES IN SECOND-HAND FITTINGS.—1 6-ft. Dispensing-screen, mirror centre, with handsome carving, £4 10s.; 1 set of 3 Plate-glass Shelves, 5 ft. long by 15 in., 12 in., and 9 in. wide, for shop-window, complete with Bars and Brackets, 55s.; 1 6-ft. bent-front Counter-case, 70s.; 1 Silent Salesman, 2 ft. by 3 ft. by 1 ft. 6 in., with Glass Shelves, etc., 75s.; 1 12-ft. Drug-fixture, containing Mahogany Gold-labelled Drawers, Shelving, etc., £9; 1 Range of inclusive Counter Drawers, 42s.; 120 Gold-labelled Bottles, assorted sizes, £4 15s. R. TOMLINSON & SONS, Headquarters for Chemists' Shopfittings, Bond Street, Constitution Hill, Birmingham.

**C**HEMISTS' SHOPFITTINGS.—Glass Show-cases, Window-enclosures, Glass Shelves, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Glass-front Counters, Drawers, etc.; All Shopfittings, second-hand, at lowest prices that can't be beaten; get my estimate; you can't do better; 30 years fitting Pharmacies. George Cook, The Working Shopfitter, 8A Cross Street, Islington, London.

**CHEMISTS'** Second-hand large Stock of Drug Fittings, Wall Cases, Dispensing Screens, Glass-fronted Counters, Window Enclosures, Mirrors, Window Shelves, Swan-neck Carbonyls; also complete Fittings for large Drug Stores; cheap to clear; estimates free. H. Mills, Chemist's Up-to-date Shop Fitter, Shop Front Builder, Steam Works, 153-5 Old Street, London, E.C. 'Phone 550 London Wall.

**SHOPFITTINGS** (equal to new).—13-ft. Drugfitting, with Mahogany and Glass-labelled Drawers, etc.; 12-ft. Mahogany and Plate-glass Serving-counter, with Counter Drawers at back; Mahogany and Bent Plate-glass Counter Showcase; 10-ft. handsome Mahogany Wall Showcase; 6-ft. Mahogany and Plate-glass Dispensing-screen and Counter, with Sponge-case; all in excellent condition; price £60; ready for immediate use. **PHILIP JOSEPHS & SONS, LTD.**, 93 Old Street, London, E.C.

**SODA-WATER** Trolley, that makes heavy work light, and on which a boy of 8 can easily convey 3 dozen syphons; will go through any doorway; fitted with patented wheels; dozens in use in all parts of the country; carriage paid 37s. Sole Makers, **Arthur & Co.**, 9 K.P., Cambridge.

**McQUEEN'S** System of Accounts for Chemists; works out gross and net profits, balance sheet, and income-tax return with guaranteed certainty; a work well known and considered indispensable by progressive Chemists (Ninth Edition). Full particulars and testimonials, post free, **McQueen & Co.**, Moat Road, E. Leicester.

## BE THE FIRST TO COMMENCE

the Winter Campaign. A severe winter is prophecied. Winter requisites will be in great demand. To be successful you must have good ideas for window displays, and up-to-date ideas for new Winter Specialities. Schemes and ideas for these are ready. Now is the time to send for a copy of my Booklet, "How to Increase Your Business," explaining my business system, also showing what I do and what I supply to Pharmacists. Sent post free to Pharmacists only.

**BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD.**

**L**ABELS; to keep in order buy the Cam Klip; sample packet 2d. **Arthur & Co.**, 9 K.P., Cambridge.

## THE BUMP OF INCREDULITY

must be highly developed. Among such Chemists there are thousands who have read of my system for increasing their businesses for nearly six years, and still have never entertained the idea of spending a halfpenny on a postcard, just to ask for free booklet, and see what it is I have for sale. Just to oblige me send a postcard to-day, to see what you are missing.

**BERNARD SLACK, 9 King St., Wolverhampton.** Nat. Tel. 581.

# Exchange Column—Bargains.

## TERMS.

*One halfpenny per word with name and address. One penny per word if we register the address and attach a number.*  
No Advertisement inserted for less than 6d.

## FOR DISPOSAL.

### DENTAL.

- EIGHT** tooth forceps, in perfect condition; £1. **TOTTLE**, Chemist, Liscard.
- IMPERIAL** dental syringe (new), 13 forceps, ¼ lb. pink rubber, 100 diatorics, month mirror, articulator. **BOULTON**, 173 Northbrook Street, Liverpool.
- DENTAL** chair, red plush covered, sliding seat, movable head-rest, side tray on jointed brass arm; £3 3s. packed and carriage forward. **BROWNLOW**, Melton Mowbray.

## DRUGS AND CHEMICALS.

- OTTO** rose, 1 oz. original bottle; what offers? **SMALLBROOK**, 42 Addison Road North, W.
- 25 LB.** opium ture opt., very old and dry, yields 13 per cent. morphia; will divide if required; highest cash offer accepted. **225/30**, Office of this Paper.

## PROPRIETARY ARTICLES.

- 6 DOZ.** 1s. 6d. botts. Clarkson's shampoo, unopened, 8s. doz., or offer. **DODRIDGE**, Chemist, Woolston, Hants.

## OPTICAL AND PHOTOGRAPHIC.

- TRAVELLERS'** optical test-cases, with inner frames, etc., complete; £8; about half cost. **TOTTLE**, Chemist, Liscard.
- POSTCARD** size Thornton-Pickard Imperial camera, pantoplanat lens, 2 DD. slides, stand, all complete, good condition; 1 Klito, £1 1s.; 1 Midg. £1 1s.; No. 1 Cameo, £1 1s.; what offers? or exchange for gentleman's bicycle. **DOWNING**, Chemist, Watchet.

## SHOP FITTINGS.

- DISPENSING-SCREEN**, 6 ft., mirror centre, marble slab; sponge-case. **LIVESEY**, Preston.

## MISCELLANEOUS.

- AIR-BED** and bellows complete, 6 ft. by 3 ft., new last September. Offers, **RAINFORD**, 40 Hamilton Street, Hoole, Chester.
- WATER-PILLOW**, 36 by 40, little used, best condition; to be had a bargain; what offers? **HUTCHIN**, Chemist, Loughton, Essex.
- 12 DOZ.** Watson & Wates' homeopathics, stamped; 8 doz. Bishop's preparations, assorted; 5 gross 2d. soothers; about cwt. chemists' lozenges. **HEMMINGS**, 2 Scylla Road, Peckham.

## WANTED.

- MODEL** for cough-cure. **REED**, Pharmacist, Ilfracombe.
- "**CHEMIST AND DRUGGIST**" posted each week. Terms, **SWANSON**, St. John's, Worcester.
- SIGHT-TESTING** appliances and optical goods of all kinds. "CHEMIST," 3 White Hart Lane, Barnes, S.W.
- FITTINGS** for shop, bottles, etc.; good condition. Send particulars and lowest price to "**PEROXIDE**" (222/29), Office of this Paper.
- OPTICAL** books; Minor, Major Chemists' books; send prepaid for valuation; cash offers per return. **GOWER**, Bookseller, Waterloo, Liverpool.
- OPTICAL** trial-case wanted complete, in good condition, reliable make. Send full particulars "**P. H.**," 45 Whiteley Road, Upper Norwood.
- RECIPE** for good 1-bottle hair-dye, browns and black, not containing silver, copper, lead; must not deteriorate in the bottle nor wash off nor cause irritation of the skin or scalp. Send sample and state price to **ATLAS MANUFACTURING CO.**, 234 George Street, Brisbane, Australia.

## COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

**Tuesday, October 24.**

*Oldham Pharmaceutical Association.* Mr. James Grier, M.Sc., on "Modern Synthetic Remedies."

**Wednesday, October 25.**

*Cardiff Pharmaceutical Association,* Angel Hotel, at 3 P.M. Mr. S. B. Eason on "The Sale of Laudanum."

*Institute of Ophthalmic Opticians,* Holborn Restaurant, London, W.C., at 8 P.M. Dr. George Lindsay Johnson on "Some New and Unpublished Discoveries in Connection with the Eye and Colour-photography" and "The Obligations of the Opticians." Tickets may be had from Mr. J. Harcombe Cuff, Hon. Secretary, 25 Friern Barnet Road, New Southgate, London, N.

**Thursday, October 26.**

*Barnsley Chemists' Association,* Royal Hotel, at 7 P.M. Ordinary meeting.

*Brighton Association of Pharmacy,* Hôtel Métropole, at 9 P.M. Mr. W. J. Uglov Woolcock will explain a scheme for the Federation of Local Associations with the Pharmaceutical Society.

*Cheltenham and Gloucester Pharmacists' Association,* Plough Hotel, Cheltenham, at 9 P.M. Nomination of Divisional Secretaries and impromptu discussion.

*Plymouth, Devonport, and Stonehouse Association of Pharmacists,* 7 Whimble Street, at 9.30 P.M. Annual general meeting and election of committee. Discussion on the National Insurance Bill.

*Chemists' Assistants' Association,* 73 Newman Street, Oxford Street, London, W., at 9 P.M. Mr. F. A. Hocking, B.Sc., on "A Hospital Pharmacist and His Duties."

**PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.**—The first evening meeting of the session will be held at 17 Bloomsbury Square, London, W.C., on November 7. Mr. R. Glode Guyer, Ph.C., will read a paper entitled "Some Observations on the Official Ointments."—The opening lecture on November 24 of the North British Branch in Edinburgh will be by Dr. Ellis, Lecturer on Botany at the Glasgow and West of Scotland Technical College, on "Bacteriology in Relation to the Work of Pharmaceutical Chemists."

## OUR AMERICAN LETTER.

(Special Correspondence to the "C. & D.")

**Organisation.**—The pharmacists of Chicago are much pleased because a recent effort to establish a group of chain-stores in that city has come to naught. The representative of an eastern syndicate spent some time in prospecting, and went so far as to advertise for store managers. Finding, however, that the druggists of Chicago are thoroughly organised and in a position to resist the aggressions, he finally went back east and told his employers that they had better stay out of Chicago. The National Association of Retail Druggists are using this case as an object-lesson in the value of organisation.

**Poison Selling.**—A considerable number of paint-dealers have recently been arrested in the city of Philadelphia for selling poisons without doing so in conformity with the Pharmacy Act, the carbolic-acid law, and other statutes. The prosecutions were brought by the Pennsylvania Pharmaceutical Examining Board. The dealers argue that since this Board is made up of pharmacists, and since it represents the pharmaceutical profession of the State, it means war to the knife between the paint-dealers on the one hand and the druggists on the other. They have therefore threatened reprisals, and it has even been intimated that they have employed detectives to endeavour to catch druggists violating the various laws, so that cases may be taken against them.

**Co-operative Buying.**—British pharmacists may be interested in knowing about a method recently devised in Cincinnati for opposing the company-pharmacy or chain-stores movement. About fifty druggists have decided to co-operate in their buying, advertising, and selling operations. Each druggist retains his own individuality, but they all buy goods together, sell at the same prices, have special sales of the same character on particular days, insert joint advertisements in the metropolitan dailies, and work every scheme possible to compete with the big stores and the

syndicates. They call themselves "The Economy Drug-stores," and this phrase is used in all the newspaper advertisements, signs inside the stores, and electric signs outside. By these co-operative methods the cost per individual is greatly reduced, and the fifty druggists hope to be able in this way to compete on equal terms with the big companies and to meet their prices.

**Dr. Wiley's Position.**—The result of the President's decision in the case of Dr. Harvey W. Wiley has been that Dr. Wiley is now head of the Food Inspection Board of the Department of Agriculture. Mr. G. B. McCabe, the Department solicitor, who endeavoured to oust Dr. Wiley, has been relieved from further service, and Dr. Dunlap, who worked with him, has been given leave of absence. Mr. James Wilson, the Secretary of Agriculture, has appointed Mr. R. E. Doolittle chief of the Bureau of Chemistry Laboratory, New York, to assist Dr. Wiley in enforcing the Pure Food and Drugs Act. Mr. Wilson holds that the Department of Agriculture should not have been entrusted with the enforcement of this Act, but the attention of the Department should be devoted to assisting in producing more food for the people. His view is that a separate department should deal with health questions. In some quarters it is stated that the controversy has only been ended temporarily, and that more trouble may be expected before long.

**Food and Drugs Act Decisions.**—The following are some recent decisions regarding the misbranding of products under the Food and Drugs Act: White's "Headache," stated to contain in each ounce 47 per cent. of alcohol and 33 grains of acetanilide. Claimed to be a headache-cure and free from enslaving drugs. Held to be misbranded, as the acetanilide and caffeine are both harmful and enslaving.—Bradbury's "Capi-Cura" was found to contain acetanilide, caffeine, quinine, salol, sodium bicarbonate, and camphor. Misbranded because no declaration was made of the presence of acetanilide.—Nyal's "Headache Wafers," containing in each wafer acetanilide 4 grains and caffeine 1 grain, were held to be misbranded because of the claim that they produce neither bad effects nor a noxious-drug habit.—Dr. Higbee's "Cough, Cold, and Grip Powders" contain 198 grains of acetanilide in each ounce. Misbranded because of a statement that a single powder would "often break up a cold if taken at the first sign of its approach."—Haarlem Oil Capsules, found to contain alcoholic insoluble matter, non-volatile material, sulphur, volatile oil, methyl salicylate, and oil of amber. Misbranded because of the presence of methyl salicylate and the claim that the capsules are a cure for kidney and other diseases.—"Infallible Headache Tablets," containing 2½ grains of acetanilide in each, also caffeine and organic acid. Misbranded on account of the claim that it is an infallible cure, and is of value in acute rheumatism.—Pink root, found to consist largely of ruellia, and hence misbranded.—Chandler's headache buttons, containing 3½ grains of acetanilide in each. Misbranded on account of curative claims.—Walker's Tonic, containing 18.21 per cent. of alcohol by volume, 4.02 per cent. of non-volatile material, including capsicum, celery, an emodin-bearing drug, and 0.24 per cent. of ash. Held to be misbranded on account of the therapeutic properties claimed.—Ammon. phenyl, stated to be ammoniated pheno-acetyl, C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>, and found to contain acetanilide, sodium bicarbonate, and ammonium carbonate. Misbranded on account of the way in which the real composition was obscured and on account of the therapeutic claims.—"Indian Tar Balsam," found to contain 60 per cent. of oil (indicating tar) and 40 per cent. of aqueous matter with odour of tar. Misbranded because of therapeutic claims.—Smith's "Quininetts," containing ½ grain acetanilide in each tablet. Misbranded on account of the curative properties alleged.—Dr. Elder's "Celebrated Tobacco Specific," a cure for the tobacco habit, containing cocain derivative, strychnine, cinchona alkaloids, ginger, and methyl salicylate. Misbranded because of therapeutic claims and statement that contains no injurious drugs.—Spirits turpentine, misbranded because it contained 3.5 per cent. of mineral oil.—Headache tablets, stated to contain acetanilide 3½ grains and codeia sulphate ¼ grain. Misbranded owing to curative claims and absence of codeine.—"Septicide," found to contain small amounts of sulphur dioxide and sulphuric acid, and misbranded on account of therapeutic claims.—Stange's "Genuine Antispasmodic or Cramp Drops," containing ether, peppermint oil, and colour. Misbranded because of curative claims.—Sabine's "Black-berry Soothing Drops," containing 9.7 per cent. of alcohol, sugar, cassia oil, and unidentified drug. Misbranded because of absence of alcohol declaration and on account of therapeutic claims.

ACCORDING to the Almería (Spain) Custom House statistics, no colocynth has been exported from that port for two years; one metric ton was exported in 1908.

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TO THEIR  
MAJESTIES  
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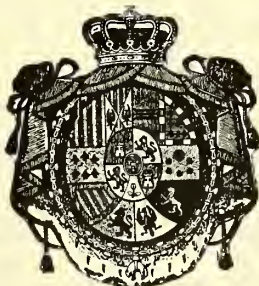
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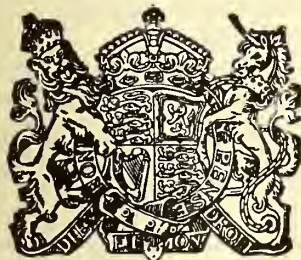
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**ONLY GRAND PRIX and the ONLY GOLD MEDAL**  
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**For TOILET SOAP**

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It is agreed among buyers and users the world over that Cardamoms produced on the island of Ceylon are

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During 1910, the shipments from Ceylon to the principal commercial centres of the world amounted to

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Of this quantity no fewer than 215,469 pounds—over one-third of the total shipment—came direct to the United Kingdom.

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Manufacturers of

**MORPHINE  
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ERGOTIN.  
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## Compound SYRUP of FIGS

—notwithstanding the abnormally high  
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Remains Unchanged in Price  
for the present ;

—our prospective needs having been  
anticipated by large purchases of these  
ingredients.

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*Supplied in Bulk ; or Packed Ready for Retail  
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# :: The NEW PURE LIQUORICE Juice ::

# APOLLO.

The makers of the well-known brands of Pure Block Juices "V.B." and "B.X.," who are the largest manufacturers of Liquorice in the World, beg to notify the Trade that they now manufacture a high-class **PURE STICK JUICE** which they have placed on the market under their registered brand "**APOLLO.**"

The same guarantee of absolute Purity, which for the past sixty years has been given with their Block Juices, equally applies to their new stick "**APOLLO.**"

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### THE CHEMISTS' BRAND.

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## Malt Extract

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Leaving the Chemist 33% clear profit.

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# DIAMALT

A MALT EXTRACT of perfect  
purity, great diastasic strength  
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See Analysis of all Malt Extracts in the Market,  
'British Medical Journal,' November 20, 1909.

'DIAMALT' WITH 15% to 32 3/4% COD LIVER OIL.  
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Lancet, July 31, 1909.

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TETRACHLORIDE of CARBON, &c., &c.

It is worth your while to send for  
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### SEED IMPORTERS AND CRUSHERS TO THE TRADE.

Best Crushed Linseed	-	-	25/- cwt.
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Specially packed in Barrels for Export 2- cwt. extra.

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Prices, Carriage Paid. Packages Free.

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2s. 9d. „ (168 „ ) ...	...	25/-
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In Powder and 3½ grain Tablets  
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**Pankreon Sugar Tablets** (boxes of 100, each  $\frac{1}{2}$  grain Pankreon) for infantile practice.

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Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this paper on Terms as below.

- \* **A**cet. Ipecac. B.P., 7 lbs. @ 1/3 lb.  
 \* **A**cet. Scilla, B.P., 7 lbs. @ 3d. lb.  
 \* **A**cid. Acet. Glacial, 99%, Carboys, 160 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 6½d. lb.; 6 lbs @ 8d lb  
 " Acetylo-Salicyl., 56 lbs @ 2/4 lb.; 7 lbs. @ 2/7 lb.; 1 lb. @ 2/9 lb.  
 " Carbol Xtls., 39/40; 2½ cwt. Drums. @ 7d. lb.; 56 lbs @ 7½d. lb.; 10 lb. Tins @ 7/- each; 36 1-lb. Bots. @ 10½d. lb.; Single Bots. 1/1 lb.; Detached Cryst. 10 lb. Tins @ 8/6 each, 1 lb. @ 1/3 lb.; Crude Black, 45 Gall. casks @ 1/- gall.; 5 Gall. Drums @ 1/4 Gall.; 1 Gall. Tins @ 1/6 each.  
 " Diethylbarbituric, 16 oz. @ 26/- lb.; 1 oz. @ 2/1 oz.  
 \* " Hydrobrom., dil. B.P., 6 lbs. @ 6½d. lb.  
 \* " Hydrocyan. P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 56 1-oz. Vials @ 3/6 doz.  
 \* " Phosph. Dil., B.P., 7 lbs. @ 4½d. lb.  
 " Salicylic pulv., 7 lb. @ 1/1 lb.; physpur. 1 lb. @ 3/- lb.  
 " Tart. cryst. or pulv., B.P. 1885, 1 cwt. @ 1/1 lb.; 7 lbs. @ 1/2 lb.; parv. ¼d. lb. extra.  
 Aloes Barb., English Ground, 28 lb. @ 66/- cwt.; 7 lbs. @ 8d. lb.  
 Ammon. Brom., P.B., 1 cwt. @ 8½d. lb.; 7 lbs. @ 1/10½ lb.  
 " Carb. lump, 3 cwt. @ 3½d. lb.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; powder, ¼d. lb. extra.  
**E**mulsion Ol. Morrhuæ, 10 lbs. @ 9d. lb.  
 Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/0½ lb.; 10 lbs. @ 1/2 lb.  
 \* **E**xt. Ergot. Liq. P.B., 5 lbs. @ 6/9 lb.; 1 lb. @ 7/3 lb.  
 \* **E**xt. Ipecac. Liq., P.B., 5 lbs. @ 13/2 lb.; 1 lb. @ 14/2 lb.  
**G**lycerin. Opt., D.D., 1260 P.B., 1 cwt. @ 112/- cwt.; 56 lbs. @ 113/- cwt.; 12 lbs. @ 1/3½ lb.  
**H**ydargyrum. P.B., 75 lb. bottle @ £3 16s.; 10 lbs. @ 2/8 lb.; 1 lb. @ 2/9 lb.; Ammon. 28 lbs. @ 3/1½ lb.; c. Creta, 28 lbs. @ 1/5 lb.; Iodid. Rub., 28 lbs. @ 8/9 lb.; Oxid. Rub., 28 lbs. @ 3/1½ lb.; Perchlor. Lump, 28 lbs. @ 2/6½ lb.; Subchlor., 28 lbs. @ 2/10 lb.; Sulph. c. Sulph., 28 lbs. @ 2/8½ lb.; 7 lb. quantities 1d. lb. extra, 3 lb. quantities, 2d. lb. extra, 1 lb. quantities, 3d. lb. extra.  
**I**chthylol Ammon., 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.; chemical equiv.: Ammon. Ichthosulphonas, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.  
 \* **I**nf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.  
 " Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.  
 " Buchu Conc., 1 to 7, 6 lbs. @ 1/8 lb.  
 " Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.  
 " Caryoph. Conc., 1 to 7, 6 lbs. @ 11d. lb.  
 " Cascarella Conc., 1 to 7, 6 lbs. @ 1/2 lb.  
**O**l. Morrhuæ, finest non-freezing, 25 gall. tin-lined barrels @ 120/- per barrel; 2 gall. tins @ 6/- per gall.  
 Ol. Olivæ P.B., good yellow, guaranteed pure, 45 gall. Barrels @ 4/8 gall.; 2 gall. tins @ 5/4 gall.  
 Opium Turc. B.P., 14 lbs. @ 26/9 lb.; 3 lbs. @ 28/- lb.; 1 lb. @ 28/6 lb.; powder, 6d. lb. extra.  
**P**otass. Iod. P.B., 1 cwt. @ 7/9 lb.; 14 lbs. @ 7/10 lb.; 3 lbs. @ 7/11 lb.  
 Potass. Permang., Cryst., 1 cwt. @ 39/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.  
**Q**uinine Bisulph 100 oz. @ 8d. oz.; 25 oz. @ 9d. oz.; 10 oz. @ 10d. oz.  
 Quinine Ethyl Carb. (Tasteless), 100 oz. @ 1/9 oz.; 10 oz. @ 2/2 oz.  
 Quinine Hydrobromas or Salicylate, B.P., 100 oz. @ 11½d. oz.; 25 oz. @ 1/0½ oz.; 10 oz. @ 1/2 oz.  
 Quinine Hydrochlor. B.P., 100 oz. @ 10½d. oz.; 25 oz. @ 11½d. oz.; 10 oz. @ 1/1 oz.  
 Quinine Sulph. B.P., 400 oz. @ 6½d. oz.; 100 oz. @ 6½d. oz.; 25 oz. @ 7½d. oz.; 10 oz. @ 8d. oz.  
**R**ad. Jalap, English Ground, 28 lbs. @ 2/- lb.; 7 lbs. @ 2/2 lb.  
 Rad. Rhei, E. I., English Ground, 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/3 lb.; 7 lbs. @ 1/4½ lb.

**COCAINE. OLIVE OIL. PEPPERMINT.**

- Amylol Pulv. 10 cwt. @ 11/6 cwt.; 2½ cwt. @ 12/- cwt.; 1 cwt. @ 14/- cwt.  
 \* **A**qua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.  
 " Anisi Conc. 1-40, 1 lb. @ 3/1 lb.  
 " Cinnam. Conc. 1-40, 1 lb. @ 3/4 lb.  
 " Aurant. Trip., 53 lbs. for 17/6; 6 lbs. @ 7d. lb.  
 " Aurant. Conc., 1-40, 1 lb. @ 6/1 lb. [lb.  
 " Rosæ Trip., 53 lbs. for 20/-; 6 lbs. @ 7d.  
 " Rosæ Conc., 1-40, 1 lb. @ 6/- lb.  
 " Samb. Trip., 53 lbs. for 23/6; 6 lbs. @ 8d. lb.  
 " Samb. Conc., 1-40, 1 lb. @ 6/1 lb.  
 " Laurocerasi, 53 lbs. for 20/-; 6 lbs. @ 7d. lb.  
 " Mentb. Pip. Conc., 1-40, 1 lb. @ 3/- lb.  
**B**ismuth, P.B., Carb., 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit., 1/- lb. less.  
**C**alcii Carb. præcip. 5 cwt. @ 13/- cwt.; 1 cwt. @ 16/- cwt.; 28 lbs. @ 21/- cwt.  
 Camphor, English Flowers, "not artificial," 5 lbs. @ 2/- lb.; ¼ oz. 7 lbs. @ 2/- lb.  
 Cetaceum. No. 1, fine white English, 64 lbs. @ 1/2½ lb.; 7 lbs. @ 1/4 lb.; powder, 7 lbs. @ 1/9 lb.  
 Cocaine Hydrochlor. B.P., 25 ozs. @ 8/6 oz.; 4 ozs. @ 9/- oz.; 1 oz. @ 9/5 oz.  
 Codeina, 1 oz. @ 18/5 oz.; Phosph., 1 oz. @ 16/9 oz.; Hydrochlor or Sulph. 1 oz. @ 17/7 oz.  
 Cream Tartar, 98% powder, 1 cwt. @ 93/- cwt.; 7 lbs. @ 11½d. lb.  
 Cubebæ, English Ground, 7 lbs @ 2/2 lb.  
 \* **I**nf. Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.  
 " Gentianæ Co., 1 to 7, 6 lbs. @ 1/- lb.  
 " Quassia Conc., 1 to 7, 6 lbs. @ 9d. lb.  
 " Rhei Conc., 1 to 7, 6 lbs. @ 1/5 lb.  
 " Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.  
 " Senegæ Conc., 1 to 7, 6 lbs. @ 2/- lb.  
 " Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.  
**L**in Camph. P.B., 40 lbs. @ 1/- lb.; 9 lbs. @ 1/1 lb.  
 \* **M**ist. Sennæ Comp. B.P., 20 lbs. @ 6½d. lb.; 6 lbs. @ 7½d. lb.  
 Morphine Acet. Hydrochlor. or Sulph., Pulv.; B.P., 25 ozs. @ 11/6 oz.; 16 ozs. @ 11/8 oz. 8 oz. @ 11/10 oz.; 1 oz. @ 12/3 oz.; Pur. Præcip. Bimeconate or Tart, 1 oz. @ 15/4 oz.  
**N**aphthaline Candles or Balls, 1 cwt. @ 12/6 cwt. 56 lbs. @ 14/6 cwt.; 28 lbs. @ 16/- cwt.  
**O**l. Caryoph. Ang., B.P., 9 lbs. @ 4/11 lb.; 4½ lbs. @ 5/1 lb.  
 Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/6 lb.; 1 lb. @ 3/10 lb.; Ligne Exot., 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.  
 Ol. Menth. Pip. English, 5 lbs. @ 33/6 lb.; 1 lb. @ 35/- lb.; Hotchkiss original bots., 21 oz. each @ 16/3 lb.; 6 bots. @ 15/9 lb.; 18 bots. @ 15/6 lb.; American, 20 lbs. @ 12/9 lb.; 4½ lbs. @ 13/5 lb.; 1 lb. @ 13/11 lb. Japanese, 60 lbs. @ 6/7 lb.; 5 lbs. @ 7/1 lb.  
**S**al. Acetos., 1 cwt. @ 5d. lb.; 56 lbs. @ 5½d lb.; 7 lbs. @ 6½d. lb.  
 Salicinum, B.P., 1 lb. @ 16/6 lb.  
 Salol, B.P., 7 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.  
 Sang. Draconis pulv., English ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/0½ lb.  
 Santonine, P.B., 7 lbs. @ 54/- lb.; 1 lb. @ 56/- lb.  
 Sapo Cast. Alb., 10 cwt. @ 25/- cwt.; 2 cwt. @ 26/- cwt.; 7 lbs. @ 3½d. lb.; pulv., 1 cwt. @ 60/6 cwt.; 56 lbs. @ 64/- cwt.; 7 lbs. @ 7½d. lb. Animal pulv., 1 cwt. @ 67/- cwt.; 56 lbs. @ 70/- cwt.; 7 lbs. @ 9d. lb.  
 Soda Cit., B.P., 3 lbs. @ 1/11 lb.  
 Sodii Bromid. P.B.; 1 cwt. @ 1/7½ lb.; 7 lbs. @ 1/9½ lb.  
 Strychnina cryst. B.P., 25 ozs. @ 2/2 oz.; 1 oz. @ 2/6 oz.; Hydrochlor and Sulphate, 2d. oz. less.  
**T**hymol. 7 lbs. @ 4/7 lb.; 1 lb. @ 5/3 lb.  
 \* **T**inct. Opii. B.P., 5 lbs. @ 3/11 lb.; Aquos. @ 3/7 lb.; bond @ 2/7 lb.  
 Turpentine (Best American), 1 gal. tins 4/1 each.  
**U**ng. Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 3/- lb.  
 Zinci Oxid. Benz. B.P., 28 lbs. @ 7½d. lb.

\* Minimum quantity at these prices: Home Trade, 8 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

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And is sold in Bottles, authenticated by a Government Stamp bearing their name. Trade Mark, "Henry's Calcined Magnesia."  
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COD LIVER OIL  
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Finest NON-FREEZING LOFOTEN COD LIVER OIL.

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# DOULTON'S STONEWARE POISON JAR



DISTINCTIVE IN APPEARANCE and  
DISTINGUISHABLE BY TOUCH  
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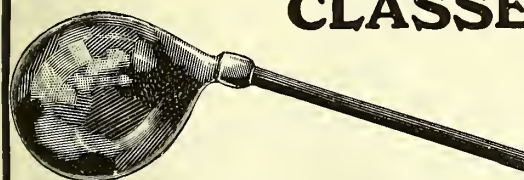


Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Esophageal Instruments.  
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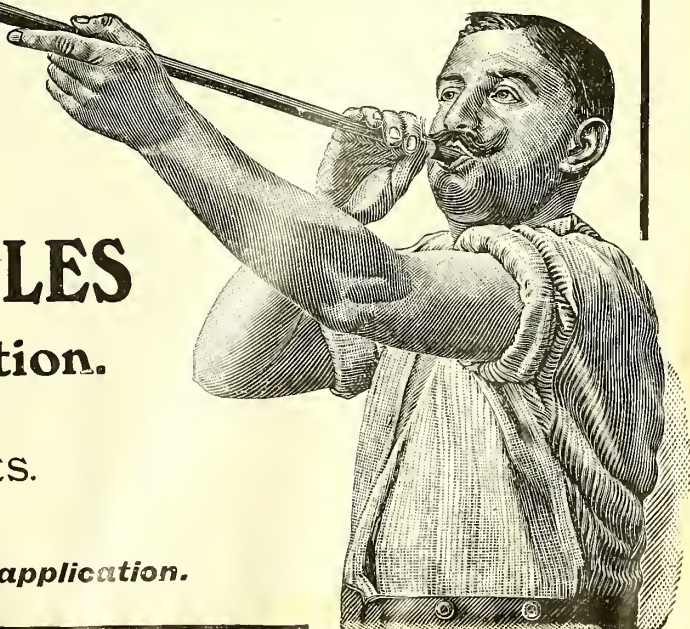


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of every description.

VERY LOW PRICES.

Price List and Terms on application.



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Fig. 2308. Bottle,  
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2 oz. 3 oz. 4 oz.  
26/- 28/- 31/- gross.



Fig. 2142. Canister.  
4½ in. high, 1½ in. diam.  
30/- gross.



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White Glass.

2 oz. ... 48/- gross.



Fig. 1847.  
Opal Glass.

2 oz. 3 oz. 4 oz.  
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Fig. 2207.  
White Glass.

2 oz. 4 oz.  
27/- 34/- gross.  
Actinic Green.  
2 oz. 4 oz.  
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Fig. 185.  
White Glass.

2 oz. 3 oz. 4 oz.  
34/- 36/- 40/-  
gross.



Fig. 1397.  
White Glass.

2½ oz. ... 36/- gross.

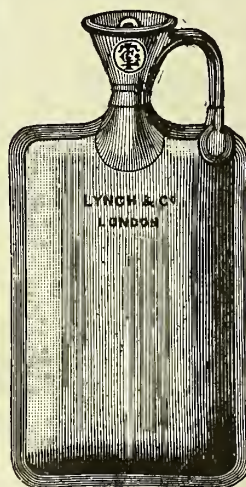
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# LYNCH'S RUBBER Hot-Water BOTTLES

BEST BRITISH  
MANUFACTURE.

QUALITY & WEIGHT GUARANTEED.



6 × 8 ... each	3/1
6 × 10 ... each	3/5
6 × 12 ... each	3/10
8 × 10 ... each	4/5
8 × 12 ... each	4/9
8 × 14 ... each	5/2
10 × 12 ... each	5/8
10 × 14 ... each	6/4
10 × 16 ... each	6/10
12 × 14 ... each	7/2
12 × 16 ... each	7/11

TWO YEARS GUARANTEE.

Subject to 5% Discount, and £2 worth  
CARRIAGE PAID.

In 14 lb. Lots 5/5 lb. Net.

CUSTOMER'S OWN NAME FREE ON 3 DOZEN.

COMPLETE PRICE LIST  
:: ON APPLICATION. ::

**MAY ROBERTS & Co., Ltd.,**  
**LONDON AND DUBLIN.**

# POISON BOTTLES

*meet requirements of new regulations.*



The illustration shows three different shapes, **Hexagona', Oval, and Flat.**  
The Bottles are well made and are

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Photographic. Household. Surgeons'. Electriolans'.



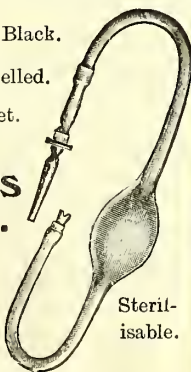
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SYRINGES.**

Red.  
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Grey.

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Red. Black.  
Enamelled.  
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**SYRINGES  
in variety.**

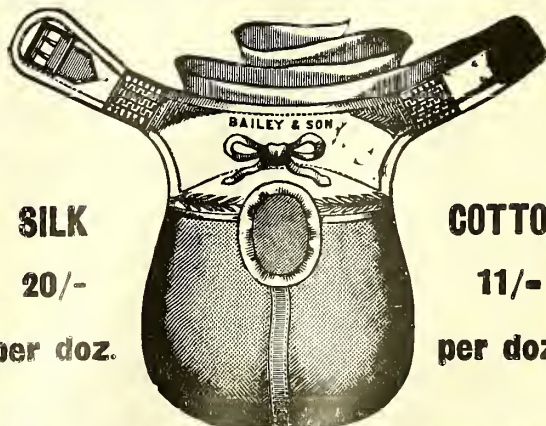


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**SILK**

**20/-**

**per doz.**

**COTTON**

**11/-**

**per doz.**

*Assorted—A, small; B, medium; C, large bags.*

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" WHITE OIL SOAPS 60° & 72° (Castle).  
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Sole Agent for "CROWN" Brand Pure STARCH.

**KARSWOOD CREOSOTE** For Cold in the Head, Asthma, Influenza, &c.Price 11/-, 27/-, 42/- per dozen, less 15%  
Minimum Retail Price, 1/-, 2/6, 4/- per bottle.**KARSWOOD CREOSOTE PASTILLES**

7½d. size, 5/- per doz. 1½ size, 9/6 per doz. net.

Carriage paid on 3 doz. lots. P.A.T.A. conditions. (2)

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Hand-made or Machine-made. "TYE'S" will ensure purity of contents and best finish. Specially prepared to suit all climates.

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is easy to wear, easy to sell, nets you big profits, and makes more satisfied customers for your shop.

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EXPERT WORKMANSHIP. PROMPT SERVICE.  
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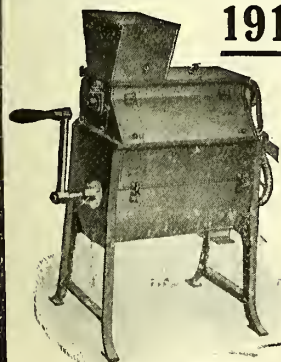
Good Profit to Chemists, &amp;c.

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EUCALYPTUS & CAMPHOR ICE, LIPSALVE, MENTHOL SNUFF,  
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SPECIALIST  
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It is necessary for sea-water injections to be as fresh as possible. The sea water contained in these Amponles is drawn every week specially for the Pharmacie Centrale de France, off the coast of Vandee, at a depth of five fathoms, under the supervision of their own chemist, according to the Quinton method. It is immediately put into sterilised vessels and is brought to the works to ensure a constantly fresh supply.

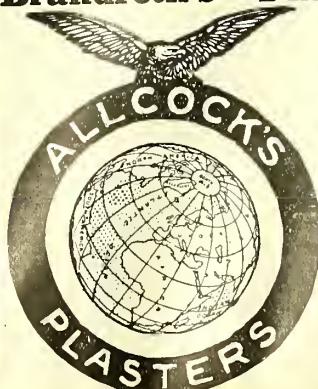
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Hand or Power.**Made by Chemists for the  
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Established 120 Years. Bankers: London County and Westminster Bank.

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**Allcock's****POROUS PLASTERS**

A REMEDY OF 60 YEARS' STANDING.

**Allcock's Plasters  
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will be sent  
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Birkenhead.****"Sold all round the World."**

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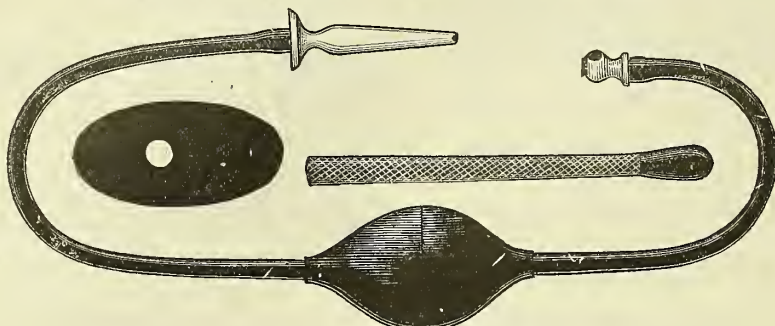


**REDUCTION IN PRICE.**



**GUARANTEED FOR 2 YEARS.**

Does not get  
sticky  
in hot weather.



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FIG. 988.

**WARRANTED NOT TO SPLIT.**

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**PRICE:**

**18/6 doz. Complete in oval card box with fittings as illustration. 18/6 doz.**

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"B.E.M." BRANDS AT 24/- doz., 27/- doz., 36/- doz.

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WRITE FOR ILLUSTRATED PRICE LIST, POST FREE.

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## SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:

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FINEST **BLACKS** AND  
**COLOURS**  
(ALL SHADES).

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CONFECTIONERY  
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MINERAL WATERS  
(Acid-proof)  
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IN FACT ANYTHING.

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MARKING INK.

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We have given our special attention to the manufacture of TRAVELLING ODORATORS, and have an immense variety in stock, including some of the FINEST ENGLISH, FRENCH, and BOHEMIAN CUT GLASS.



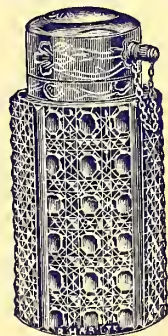
Hand-cut English Glass, with Nickel Mount.  
No. 32 ... 72/- per doz.



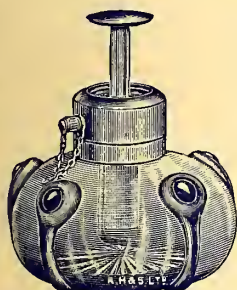
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Cut Glass, tinted Ruby or Green, with Gilt Engraved Mount. No. 67... 93/- per doz.



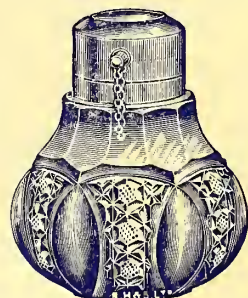
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No. 157. Nickel.  
17/- per doz.

No. 158 ... 25/- per doz.  
No. 161 ... 31/- "  
No. 157, Gilt 30/- "

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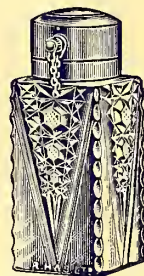
We invite a personal inspection of our stock of Sprays, and where this is impossible we shall be pleased to forward a selection on approval.



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35/- per doz.



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Cut Glass, assorted.  
27/- per doz.



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45/- per doz.

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I am happy to say that you were right and I was wrong, for they have proved real good sellers and I very quickly had to write your house to send me on a gross.

Yours faithfully, ———, M.P.S.

**INDIGESTION and WIND PILLS**, 18 in box, very striking showcard—packed in smart turned wood boxes, 15/- per gross. On gross lots (which may be assorted) we print Chemist's name and address on band which surrounds the box.

This series includes—**BACKACHE and KIDNEY, FEMALE, LIVER and STOMACH, GOUT and RHEUMATIC, INDIGESTION and WIND.**

**ARTHUR H. COX & Co., Ltd., Manufacturing Chemists, BRIGHTON.**



**A Cup of Cadbury's Cocoa**  
makes an excellent and satisfying  
emergency food.

A Coupon in every package.

**50 YEARS' REPUTATION.**

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**MANUFACTURING CHEMISTS**

WHOLESALE DRUGGISTS, DRUG & SPICE GRINDERS,  
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